



The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALE - MANUFACTURER

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SEPTEMBER 18, 1943

Annual Subscription (with
Diary) 25/- Single Copies 9d.

Announcing a new M & B arsenical 'NEO-HALARSINE'

TRADE MARK

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arsphenoxide tartrate

It is now certain that the substance 3-amino-4-hydroxyphenyl arsine oxide which we have named arsphenoxide is of value in the treatment of syphilis and other spirochaetal infections.

Arsphenoxide tartrate, a pure crystalline compound of unvarying composition, is available in ampoules suitably diluted with sodium bicarbonate and sucrose to facilitate the preparation of isotonic solutions for intravenous injection. As a result of the incorporation of a trace of an innocuous stabilising agent such solutions will not discolour or become more toxic after standing for at least eight hours.

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of pharmacists towards
the firm's endeavours
to secure, on the . . .
basis of their customers'
1939 orders, a fair . . .
distribution of . . .
their own officially
restricted stocks . . .



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The use of "hypochlorites" for special purposes to replace disinfectants in short supply was recommended by the Therapeutic Requirements Committee of the Medical Research Council (see *Pharmaceutical Journal*, April 4, 1942), which emphasised the necessity of selecting "those materials which are most readily available."

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Milton Denture Powder (1/3d. and 2/2d.), Milton Antiseptic Ointment (7d. and 1/1½d.), and Milton Dental Cream (1/2d.) are available, and may be ordered with Milton Antiseptic in £2 and £5 carriage-paid bonus parcels. Milton Nasal Sprays (3/6d.) may also be included. The prices shown throughout are retail (including Purchase Tax, except in the case of Sprays, which are tax free).



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INDEX TO ADVERTISERS

The fact that goods made of Raw materials in short supply owing to war conditions are advertised in this paper should not be taken as an indication that they are necessarily available for export.

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continued overleaf

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MODERN in design and must be TRIED to be appreciated.

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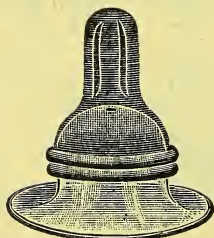
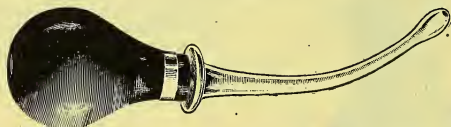
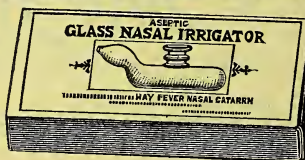
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MENTMENT											
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	40 gr. "	3/4½	2/1½	+	4½	25/3	+	4/3
	20 gr. "	1/10½	1/2	+	2½	14/-	+	2/4
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PHTHALMO-ANTIPEOL											
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RHINO-ANTIPEOL											
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	of 500 tablets	39/-	24/-	+	4/-	288/-	+	48/-
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JAMES' BALM											
	of approx. 2½ ozs.	2/10	1/11	+	4	22/6	+	3/9
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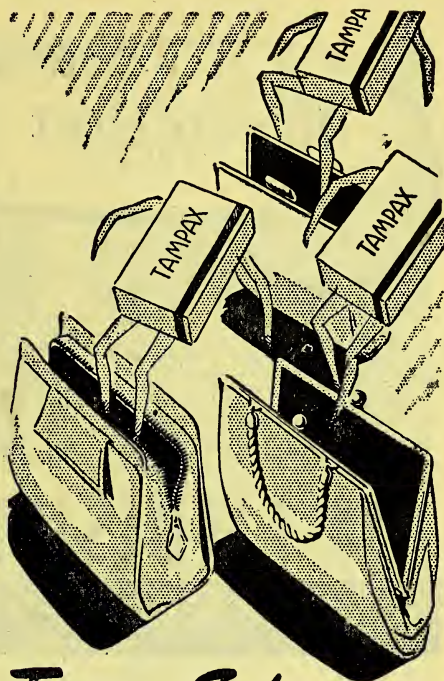
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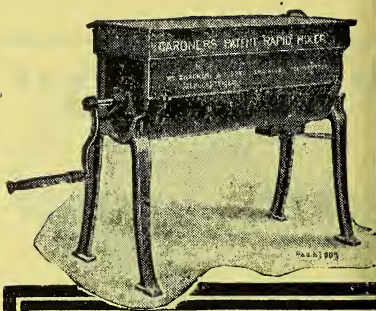
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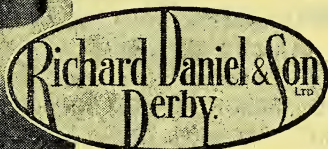
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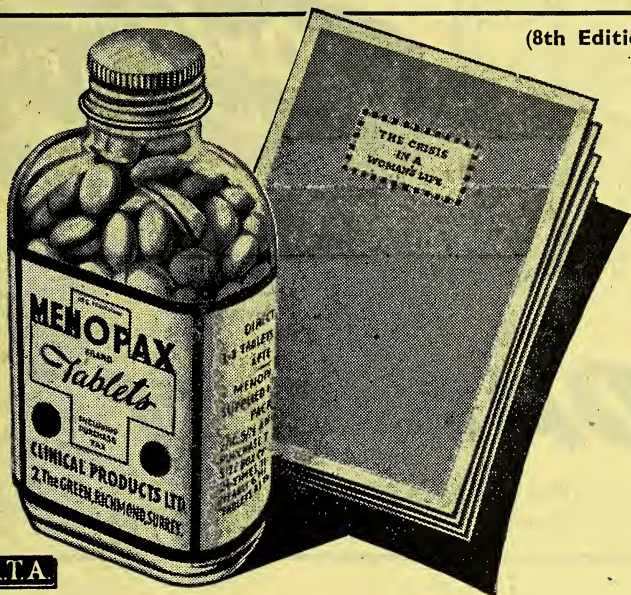
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THE CRISIS IN A WOMAN'S LIFE"

(8th Edition)

**P.A.T.A.**

Supplies of this sales-creating booklet are still **FREE TO CHEMISTS** who stock **MENOPAX**, but under Statutory Rules and Order (1942), No. 1817, a charge must be made to the public. Price: 3d. per copy.

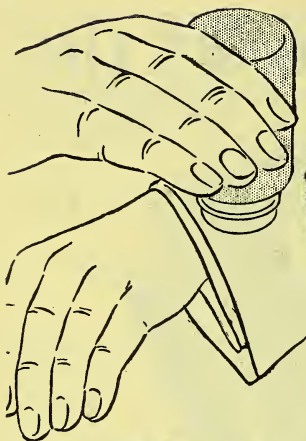
We regret that owing to paper restrictions free distribution of "The Crisis in a Woman's Life" **TO THE PUBLIC** is no longer possible, and chemists who stock Menopax must therefore make a charge (3d. per copy) to those who ask for it. (This price is clearly marked on the cover.)

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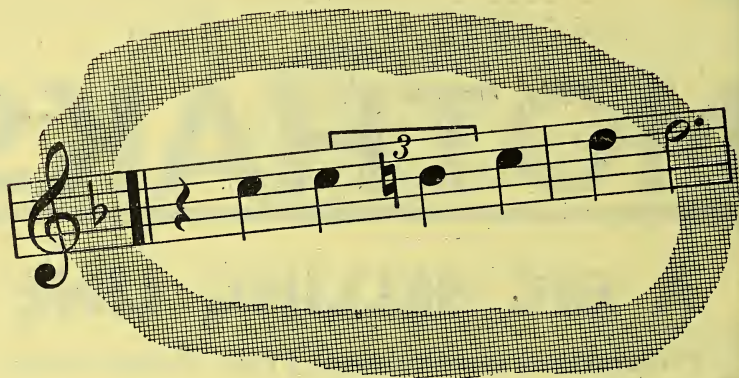
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NEWS OF THE WEEK

Licences for Pest-control Undertakings.—Under the Infestation Order, 1943, firms or persons engaged in manufacturing, preparing, or servicing with substances or articles used for the control of rodent, insect and other pests will require a licence from the Minister of Food after a date to be announced by special Order. Requests for forms of application for licences can be made now to the Director of Infestation Control, Ministry of Food, University College, Gower Street, London, W.C.1.

Comprehensive Health Service.—At a meeting of the Association of Welsh Insurance Committees at Cardiff, on September 14, Mr. Ernest Brown (Minister of Health) said that when the Government proposals were published there would be the fullest opportunity for discussion by all concerned. The principle of free choice of doctor would be maintained. Another fundamental point would be the general practitioner service based on the family as a unit. Sir Ewen Maclean (a past-

president of the British Medical Association) urged the desirability of the proposed comprehensive medical service being built upon the framework of the National Health Insurance scheme.

Lancashire Traders and Shop Licensing.—There is a sharp division of opinion among Lancashire traders on the question of compulsory licensing of shops after the war. Blackburn Chamber of Trade, by a large membership, favours permanent licensing of all shops, with a proviso that Servicemen retailers should have preferential consideration. An equally representative Chamber at Burnley has voted in favour of no licensing of shops when the war ends. Accrington Chamber considers there should be a short period of restriction when peace is restored. One retailer considered it unfair for "doddering" shopkeepers to legislate for conditions which the younger generation would have to endure on returning to civil life. He felt no decision should be reached without consultation with traders now absent.

Reduced Price for Pearl Barley.—The Ministry of Food announces that the maximum selling price of pearl barley will be reduced from 9d. to 7½d. per lb. on October 17.

Religion in Business.—Liverpool Branch of the Catholic Pharmaceutical Guild joined with the local province of the Catenian Association recently to discuss "Christ in Business and Professional Life."

Pharmaceutical Society of Ireland.—The election of members to fill the seven vacancies on the Council of the Pharmaceutical Society of Ireland will take place on Monday, October 4, and voting papers (if there is a contest) must be returned before 11 a.m. on that date. The annual meeting of the Society will be held on Monday, October 11, at 8.30 p.m.

Dublin a "City of Chemists' Shops."—Mr. Ruddick Millar, a Belfast writer, recently gave, in a Dublin evening newspaper, his impressions of a visit to Eire. He stated: "It is three years since I was last in Dublin and I find in the meantime it has become a city of cyclists and chemists' shops. . . . These chemists' shops are even more numerous in suburban places like Dun Laoghaire, where almost every third store deals in drugs. At least, I thought that until I discovered the real trade to be cosmetics—tons of them."

Irish Chemists' Golf.—The Irish Chemists' Golfing Society held a successful outing at the Lucan Golf Club, co. Dublin, on September 8, when a competition was held for prizes presented by Irish Pharmaceuticals, Ltd. The winner of the eighteen-holes strokes competition was Mr. S. J. Savage (9), 75, the runner-up being Mr. P. McAuliffe (12), 78. The award for the best net first nine holes went to Mr. T. J. Lynch (5), 38½, and, for the best net second nine holes to Mr. P. H. Fahey (14), 35. Mr. J. F. O'Hara (captain) presided at a supper held subsequently at the Lucan Spa Hotel, at which those present included Messrs. T. P. Toher, Sligo (president, Golfing Union of Ireland), S. McAuley (managing director, Irish Pharmaceuticals, Ltd.), and P. C. Cahill (a director of the company), and Dr. George Sheehan (president, Lucan Golf Club). A vote of thanks to the donors of prizes was proposed by Mr. McAULIFFE, MR. MCAULEY responding. Thanks to the Club for the use of the course was moved by Mr. M. LEONARD; DR. SHEEHAN replied. The Society will hold its final outing of the season at Elm Park Golf Club on September 29, when the competition will be for prizes

presented by Kodak, Ltd., and Northan Warren (I.F.S.), Ltd.

No Pharmacists in Eire Senate.—The two pharmacist candidates for election to the Eire Senate (Messrs. P. C. Cahill and F. Loughman) were unsuccessful. Mr. Cahill received no first-preference votes. Mr. Loughman received two only, and insufficient votes in subsequent counts to reach the quota of 8,032.

Health Essay Competition.—A series of prizes for the best essay on an Inter-Allied charter of health has been offered by the Anglo-Czechoslovak Founders' Committee. The competition is open to members of the medical profession, biologists, research workers in health services, nurses and medical auxiliaries. Particulars may be obtained from Dr. Jan Swoboda, Health Charter Study Group, c/o Langdale House, London Road, Harrow-on-the-Hill.

Plymouth Pharmaceutical Employees.—Mr. G. Maurice Hann (secretary, National Amalgamated Union of Shop Assistants, Warehousemen and Clerks) gave an address to the Plymouth Branch of the Association of Pharmaceutical Employees (an affiliated body) at a meeting held on August 24. He urged employee pharmacists to organise and unite.

Natural Menthol Prices Controlled.—The Board of Trade, at the request of the Ministry of Supply and in consultation with the Central Price Regulation Committee, has made an Order fixing the maximum prices to be charged by importers, brokers and wholesalers of natural menthol. The maximum price to be charged by importers and brokers is 75s. per lb. The maximum price to be charged by wholesalers is 95s. per lb. If, however, a wholesaler can prove that at all times since March 3, 1939, he had supplied menthol to retail traders and can prove also that at the date of the Order coming into operation he had in his possession stocks for which he had paid more than 75s. per lb., and that he had notified the Central Price Regulation Committee of the amount of such stocks, his maximum price of 95s. per lb. may be increased in respect of these stocks, by the difference between 75s. per lb. and the price he actually paid, so long as this price does not exceed 125s. per lb. The Order, which is to be known as the Natural Menthol (Maximum Prices) Order (S. F. & O., 1943, No. 1285), comes into operation on September 20, and is obtainable through H.M. Stationery Office, price one penny.

EMPIRE AND FOREIGN NEWS

German "No-Vitamins" Cures.—A German Press agency announcement states that doctors have discovered that a number of blood diseases can be cured by a systematic denial of vitamins to the patient.

Prescription not Enough in Germany.—Concentrated diphtheria serums are scarce in Germany, and chemists have been informed that they must not sell them except under special permit. A doctor's prescription is not sufficient. Less-concentrated serums are plentiful and the Government has advised doctors and chemists to administer more of these.

Canadian Penicillin Production.—The Canadian correspondent of "The Times" reports that the Dominion Government has approved expenditure on establishing, in Montreal and Toronto, plants for the production of penicillin. The sum voted will cover establishment costs and the provision of the first 26,000 million units required by the Canadian armed forces.

Mobile Pharmacy for German Parachutists.—The Transocean Agency announces that German parachute troops are being equipped with a special pharmacy which is dropped by parachute. The pharmacy is in wheels and can be taken wherever the troops go. Each unit is accompanied by a doctor and three assistants, and contains all necessary supplies, including apparatus for water testing.

Veterinary Advertising Controlled in Australia.—By a Commonwealth Government Order issued recently, advertisements directly or indirectly relating to any stock food, stock lick, or stock remedy are limited to the name of the manufacturer or distributor; a name or trade name and short title indicating the use or purpose; the price; a statement specifying the number of animals which may be treated or fed with the stock food, stock lick or stock remedy during a specified period for a specified cost or with a specified quantity; and any other matter required by law.

Status of Australian War Pharmacopœia.—When the Australian War Pharmacopœia was issued, medical practitioners were urged to prescribe the formulas contained in it in preference to others, in order to conserve those drugs, etc., in short supply. Legally, however, precedence could not be given over the British Pharmacopœia, the British Pharmaceutical Codex and Australian Pharmaceutical Formulary, because the formulas, specifications, and tests in

these books are legal standards in the various States. An amendment has been issued to the Control of Medical Equipment Order which removes this obstacle, and makes the A.W.P. the official standard throughout the Commonwealth for any formulas included in it.

Drug Shortage in France.—The Paris newspaper, "Le Journal," reports chemists' complaints about deteriorating supplies of medicines. In certain categories there is a complete lack. Among these are soft and liquid paraffins, lanolin, castor oil, bismuth, quinine, sodium and potassium salts, iodides, caffeine, tincture of iodine, and cinchona. Quantities of sugar and alcohol or syrups obtainable are "ridiculously small," surgical spirits are not allowed to be sold without medical prescription, and absorbent cotton-wool has been replaced by cellulose wool or specially-made substitute, the quota being extremely small. The lengths and widths of gauze bandages have been reduced. Quotas of various medicines have been fixed according to chemists' pre-war turnover.

Australian Social Security Proposals.—Discussions have taken place in Australia between representatives of pharmacy and the Minister for Social Services and Health on the position of pharmacists in relation to any scheme of social security which envisaged the inclusion of pharmaceutical benefits. General agreement has been expressed among pharmacists that for the satisfactory working of a pharmaceutical service the Government should be willing to grant:—

1. A tariff system of payment for prescriptions.
2. Free choice of pharmacist by participants in the scheme.
3. Representation of pharmacists in the administration in so far as it touches their interests.
4. The right to continue private practice.

At the interview the Ministers revealed the scope of what was contemplated, but spoke in terms of arriving at a flat rate per prescription. The pharmacists press strongly that even an apparently high flat rate per prescription could involve some contractors in loss, due to variations in prescribing, and that only a scientific method of pricing, the principle of which could be applied to all prescriptions, would ensure that everyone dispensing under the scheme received his just dues.

TOPICAL REFLECTIONS

Medical Planning

Although only four weeks had elapsed since you commented on the attitude of the British Medical Association (so far as it was known) to the proposals of the Ministry of Health for "a comprehensive health service," the question has by no means "gone stale," and its importance warrants the space allotted to it on pp. 264 and 267. The annual representative meeting of the Association is announced for September 21-23: pharmacists will be wise to read reports of it with sympathetic but critical attention. The remarks of Dr. G. C. Anderson, summarised in your last week's issue, do not appear to take us further than the pamphlet issued under the auspices of the Association in 1938; having regard to his official position, it was not to be expected that he would put forward any original suggestions. His discussion of the "Beveridge plan" is judicious, and was probably evoked by his observation of certain tendencies or reactions. The suggestion that the profession "should regard the present period in its history, not as one of crisis and revolution, but as one of opportunity and evolution" may be amplified. It takes us down to fundamentals, and is as true of individual patients as it is of the doctors and chemists who look after their health. While there may be more than one crisis in the medical history of any human being, a geological period, an æon, would be required to effect a revolution in the structure and physiology of the human body. So, then, let us be clear that neither we nor our medical associates have any leaning to revolutionary ideas and methods; they belong to adolescence, the "space of life" between boyhood and manhood described in Keats's memorable preface to "Endymion." As to the time to be allotted to experimenting with health centres before allowing a definite scheme to crystallise, a period of two years has, I believe, been suggested. In any case, so important a feature should not be thrust on the country hastily.

Proper Names in Chemistry

Your question "What is Schweitzer's reagent?" (p. 272) set me thinking. In any modern book of reference one finds dozens of such names attached to mixtures of chemicals. One example will suffice. Opening National Formulary VII at the beginning of the section devoted to clinical laboratory reagents and preparations, I find on the first four pages the following proper names

among the headings: Rivalta, Tsuchiya, Exton, Folin, Kingsbury, Clark, Esbach, Gram, Van Slyke, Cullen, Van den Bergh, Ehrlich, Collip, Kramer-Tisdall. The section referred to comprises sixty-two pages. Has not this type of proprietary claim been overdone? If it was a question of advertising to the general public, one could understand it; but in this case we are dealing with scientific procedure. With such multiplicity of persons to be thus commemorated, the common talk of the value of team-work in research sounds a trifle ironical. Moreover, there is a suspicion of laziness in falling back on a personal label as the accepted means of describing, say, a mixture of acetic acid and distilled water in specific proportions. We shall perhaps be told that each reagent is only one element in the author's method. Quite; but scientific workers prefer, I trust and believe, to call things by their proper names. Someone with the requisite leisure and influence might take this question in hand.

Shakespeare's Health

To ask whether Shakespeare suffered from a deficiency of vitamin C (p. 269) is, in the words of Sir Thomas Browne, to inquire too curiously. In the limited space left I must confine myself to outlines. The only Shakespeare with whom we have any concern is Shakespeare the poet: extraneous matters are irrelevant. Browning put a similar conclusion, in his robust way, in the last lines of "House." Like other poets he was simplifying and was expressing a single mood; as Swinburne indicated, we know too little of Shakespeare as a man to go all the way with Browning. Resplendence of intellect may, of course, be paralleled by some physical defect. But even if experts agree that Shakespeare's handwriting shows signs of writer's cramp—and I have never heard that they do—it does not follow that avitaminosis was the cause. Two cases of apparently chronic shakiness in calligraphy come to my recollection. In one, the patient lived an active life to the age of eighty or thereabouts; in the other robust health is a sufficient summary. It is perhaps worth asking whether the case-book of John Hall, Shakespeare's son-in-law mentioned in your issue of March 21, 1937, can throw any light on the matter of the poet's health by implication. A new study of them by a sufficiently ingenious commentator might result in the evolution of a new theory.

Xrayser

LEGAL REPORTS

Unlabelled Poisons.—At Ealing, London, recently, Horace Thomas was fined £15 for selling bottles of disinfectant without labels at a shop in Teignmouth Parade, Ealing, which was not registered for the selling of poisons.—At the same Court on the same date, Jarvis Stores, Ltd., Yiewsley, were fined £4 for selling unlabelled bottles of ammonia at premises in Northfield Road, West Ealing, which were not registered for the sale of poisons. At Brentford, recently, the company was fined £1 on each of three summonses for similar offences at other branches.

Thefts of Drugs and Chemicals.—At Loughborough, on September 6, Maude G. S. Browne, Stretton Hall Hospital, Oadby, was sent to prison for six months for stealing tablets of atropine, morphine and heroin, the property of Loughborough General Hospital. According to a medical report the defendant was a drug addict.—At Clerkenwell Police Court, London, recently, Frederick A. Ford was bound over on charges of dealing quantities of liquid paraffin, sodium borate, and other items, valued at £1 7s. 3d., the property of his employers, Baird & Atlock, Ltd., St. Cross Street, London, E.C.1.

No Supervision.—At Liverpool, on September 8, H. P. Rees, Ltd., chemists, were summoned for having sold tablets and a cough mixture, each containing a poison, from a branch shop at 19 Cherry Avenue, Liverpool, without the sales having been supervised by a pharmacist. They were also summoned for supplying the cough mixture in a bottle which was not labelled with the name and address of the seller. For defendants it was explained that the pharmacist attached to this shop was a man of great experience. Owing to his age, he found some difficulty in putting in time at the shop. Fines amounting to £8 were imposed.

Charges of Receiving.—At West Ham Police Court, London, on September 7, charges of receiving stolen goods were brought against Norman Marcus, Hyman Marcus and Philip Marcus, who, it was alleged, were concerned in receiving between July 13 and August 16, 450 dozen bottles of Brylcreem, valued at £317 11s. 9d. Simon Appleboom, carrying on business as J. Appleton, hairdresser, was charged with receiving sixty dozen bottles, valued at £45, and Jack Philips, hairdresser, was similarly charged in respect of eighty-four

dozen bottles, valued at £63, and Alfred Astley, hairdresser, was charged with receiving 264 dozen bottles, valued at £198. It was stated by the prosecution that the lorry driver for the County Perfumery Co., Ltd., had been ordered to take a load of 450 dozen bottles of Brylcreem to a firm of druggists' sundriesmen, but the load did not arrive. Some weeks later the lorry driver surrendered to the police, was charged with selling the Brylcreem and sentenced. The present prosecutions arose out of that case. The proceedings were adjourned until September 18.

COMPANY NEWS

SURE DEATH PEST EXTERMINATORS, LTD. (P.C.).—Capital £1,000. Manufacturers of and dealers in insecticides, vermicides, etc. Anna Atlas, director. R.O.: 10 Essex Street, London, W.C.2.

GARTH CHEMISTS, LTD. (P.C.).—Capital £100. Wholesale and retail chemists, chemists' sundriesmen, etc. William F. Jackson, M.P.S., and Mrs. Clara Collins, directors. R.O.: 102 Marsh Road, Pinner.

THOMAS SWALES (LEEDS), LTD. (P.C.).—Capital £5,000. To acquire the business of chemists carried on in Leeds as "Thomas Swales." Frederick H. Swales, director. Solicitors: Cranswick Crawford & Owen, 28 East Parade, Leeds.

SAM. LOEWENSTEIN, LTD. (P.C.).—Capital £3,500. Dealers in and manufacturers of fancy goods, plastics, chemical, cosmetic and other preparations, cork, etc. Directors to be appointed. R.O.: 9 West Heath Close, Hampstead, London, N.W.3.

BROADWAY SURGICAL BUREAU, LTD. (P.C.).—Capital £500. To acquire the business carried on by Alfred S. Northcott as the "Broadway Surgical Bureau." Harry Green, director. R.O.: 1 Chichester Court, 5 Crawford Street, London, W.1.

ALFRED COX (SURGICAL), LTD. (P.C.).—Capital £4,000. To acquire the business of surgical instrument makers carried on at 108 Whitechapel Road, London, as "Krohne & Sesemann." C. F. and R. E. Sesemann, directors. R.O.: 108 Whitechapel Road, London, E.1.

CHEMICAL MANUFACTURERS' DISTRIBUTORS' CORPORATION, LTD. (P.C.). Capital £1,000. Manufacturers of and dealers in chemicals, drugs, disinfectants, fertilisers, proprietary articles, etc. Sydney Leader and Duncan Mackinnon, directors. R.O.: Friday House, Cheapside, London, E.C.4.

TRADE NOTES

Slippery Elm Food.—Manufactured in England by Brook, Parker & Co., Ltd., Bradford, Forbes' slippery elm food for babies and invalids is available in three sizes at terms listed elsewhere in this issue.

Approved Prices.—The Central Price Regulation Committee has approved the prices for surgical dressings set out in the price list dated September 13 of the Surgical Dressings Manufacturers' Association.

Home Dyes.—Osogood packeted dyes for home use are available in nineteen shades and suitable for all fabrics. The dyes are obtainable from Osogood, Ltd., North House, North John Street, Liverpool, 2. Delivery is from available supplies.

Price Increase.—The Yestamin Co. (The English Grains Co., Ltd.), Shobnall Road, Burton-on-Trent, announce that, owing to greatly increased costs of raw materials and production costs, they have been compelled to increase the price of Yestamin tablets and powder. The new prices came into effect on September 13. Details from the makers.

Bronze Check Valves.—Standardised controllable and non-controllable automatic non-return check valves are the subject of literature issued recently by Hopkinsons, Ltd., Huddersfield. The standard horizontal valve with screw connexions, either non-controllable or provided with a hand wheel to control the action, is made in eight standard sizes, ranging from $\frac{1}{8}$ -in. bore to 3-in. bore. The latter, unlike the other seven sizes, has a studded cover. The range of horizontal check valves is also made with flanged connexions, controllable or non-controllable.

Organic Arsenicals.—Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, announce the introduction of a new preparation of 3-amino-4-hydroxyphenylarsine oxide or arspenoxide, a trivalent arsenical that is being used increasingly in the treatment of syphilis and other infections in which nearsphenamine is indicated. Neo-Halarsine arspenoxide tartrate is available in ampoules containing 0.09, 0.06 or 0.045 gm. The preparation is a development of Halarsol, the first preparation of arspenoxide to be made available commercially, and issued as long ago as 1930 for the treatment of yaws. The makers describe the active material as a pure crystalline substance, solutions of which can be allowed to stand for at least eight hours without discoloration or increase in toxicity.

Business Changes

MR. PETER SLATTERY, M.P.S.I., 162 Parnell Street, Dublin, has acquired the pharmacy of Mr. Thomas Keogh, M.P.S.I., 5 Fairview Strand, Dublin.

LONDON PHARMACEUTICAL LABORATORIES, LTD., shaving-cream manufacturers and suppliers of teats and valves, have altered their address from 37 Bedford Square, London, W.C.1, to 24 Thornsett Road, S.W.18 [Corrected note].

Proprietary Articles Trade Association

Alterations to Protected List.—*J. Grossmith & Son, Ltd.*, Old Cottage lavender toilet soap, and Golden Still Cologne toilet soap, 8 $\frac{1}{2}$ d. tablet, 5s. 10 $\frac{1}{2}$ d. doz., tax 1s. 11 $\frac{1}{2}$ d. per doz., inclusive retail price, 10 $\frac{1}{2}$ d.

INQUESTS

At Burnley, on September 9, a verdict of accidental death was recorded at an inquest on Lucilla P. Taylor, who died through drinking ammonia.

At Liverpool, on September 7, the Coroner recorded a "suicide" verdict in the case of Elsie M. Gawthorne, whose death was due to an overdose of aspirin.

Death by misadventure by taking an overdose of a chloral-bromide mixture was the verdict recorded at Teignmouth, recently, on Frederick J. Patterson.

At St. Pancras, London, N., recently, an inquiry was held into the circumstances attending the death of Ethel Haines. According to the medical evidence, death was due to aspirin poisoning.

A verdict of "death by misadventure" was recorded at a Birmingham inquest recently on Francis Cecil Sheppard (aged thirteen), Edgbaston, who died after he had swallowed some 40 or 50 phenobarbitone tablets during the afternoon of the previous day. The Deputy Coroner said the boy might have taken the tablets to cure a headache or out of pure mischief.

A verdict of "misadventure" was returned at the resumed inquest at Croydon, recently, on Mrs. Dora Johns, Norbury. Dr. Roche Lynch (Home Office analyst) said he had found strychnine in some of the organs of the deceased. There was also strychnine in a full bottle of medicine found at Mrs. Johns' house and in the few drops of liquid which were left in the empty one. The jury returned a verdict that Mrs. Johns died from an overdose of medicine and that death occurred from misadventure.

A SERGEANT-DISPENSER ON PHARMACY

THE Editor has received a copy of a letter sent to Mr. H. Steinman, M.P.S., Manchester, by Sergeant L. Simons, R.A.M.C. The letter contains many items that are of interest and concern to pharmacists at home, and some passages from it are reproduced below:—

DEAR MR. STEINMAN, Received your very welcome letter this evening. . . . I must confess it made me rather envious, as it would be very nice to travel on a train in England once more.

Your little lecture was very interesting, and somewhat of a climax to my evening, as I and my brother pharmacists had been arguing amongst ourselves on the selfsame subject. I am afraid the prospects of commissioned rank during this war are very small, but nevertheless I am sure our services are amply appreciated out here. The question of commissioned rank, however, is likely to play a very minor rôle in the future of pharmacy, and it is in civilian work that the bettering of our status must take place. Far too many of us are concerned more with increasing our banking credits than with our own profession. We have come to rely more on the manufacturing chemist than on our own abilities. If every pharmacist was capable of preparing his own medicaments from the crude or individual drugs, he would have no need to rely on the humiliating sale of cosmetics, and the jumbled assortment of goods that make his pharmacy look like a bazaar. He carries stocks of these articles, probably running into hundreds of pounds, which, because it has to be replaced, is dead stock. If he was to clear all this out, and buy equipment with the proceeds, he would be undergoing no extra expense, and would soon be more than amply repaid. The finest drugs would be at his disposal, and he would be engaged in work in which he was so well trained.

Problem of Overcrowding

But I suppose this is only one small part of the problem. The main one, I think, is the overflowing of the profession. There are too many of us, and that is directly due to the Society. They failed to look into the future, and now we are almost as numerous as grocers. Yet what opportunities are awaiting us! Medical science is leaping forward at an inspiring rate, and leaving disrupted pharmacy at the post. I have become convinced that true pharmacy will never be practised except in the hospital. I am unable to reconcile myself to any other

view. The harm has been done now, and nothing we can do will change the position. Yet I should like to see every pharmacist doing the work he was meant to do. Somewhere we took the wrong road, and the way back is no more.

If I continue in this vein I shall become morbid, so I will change the subject. As you say, I have a story to tell when I get back home. Not one of hazardous incident, I admit, but, instead, of changing scene and absorbing interest. Of other lands and climates, and of unusual situations. But writing has its limitations, and verbal sounds have a descriptiveness all their own. I will let it wait until we meet again in the country of countries—England. We are settled at last, and getting down to some real work. Interest never flags, and as a result the days go by with the speed of an express train.—Yours, L. S.

SERUM THERAPY IN BURN SHOCK

PRESMAN, in the "Journal of the American Medical Association" (122. 14. 924) criticises as inadequate the usual serum or plasma therapy of acute extensive burns. He urges that serum or plasma therapy should be given with the object of restoring a normal blood volume and not from considerations of the units of fluid administered. His observations indicated the need for much larger doses of serum or plasma than usually given. By far the greater part of the fluid should be administered during the first twenty-four hours. He suggests in adults the immediate administration of 50 c.c. of serum or 60 c.c. of plasma for every per cent. of body surface burned, plus 20 to 30 c.c. for every per cent. during the first twenty-four hours and another 20 to 30 c.c. in the first seventy-two hours following the burn (total administration at least 100 to 110 c.c. for each per cent. of body burn). Crystalloid fluids should not be given during the first twenty-four hours, and fluids and a high protein diet by mouth should begin as soon as possible. From analyses of blister fluid and of blood plasma he finds that the former has a concentration of proteins equivalent to 70 to 80 per cent. of the plasma proteins. The albumin content of blister fluid was fairly constant, but the globulin content showed decided variations independent of the albumin or globulin values of the blood and of the albumin values of the blister fluid.

DOSAGE OF VITAMIN PREPARATIONS

THE Council on Pharmacy and Chemistry of the American Medical Association has issued a report in which it states that at various times it has given consideration to excessive and indiscriminate use of vitamin preparations by the general public. There has been no concern over any danger in such usage in doses which the Council would consider for therapeutic recommendation, but it is apparent that large numbers of people have been using pharmaceutical preparations of vitamins far in excess of what would be expected to be of real benefit. This first became apparent in considering the large dosages recommended for vitamin A and D preparations when these vitamins became available at a relatively low cost.

Statement of Policy

This prompted the Council to restrict acceptance of vitamin A and D preparations recommending high dosages of vitamins A and D to preparations advertised only to the physician, and the following statement of policy was adopted:—

Vitamin A and D preparations are accepted with dosages in excess of 10,000 units of vitamin A or 1,000 units of vitamin D if the products are advertised only to the physician and the dosage statement indicates that the dose prescribed provides more than a prophylactic dose of the vitamin.

The Council decided that the principle involved should be applied uniformly to all vitamin preparations and accordingly adopted the following recommendation:—

That acceptable vitamin preparations which supply in each unit (tablet, capsule, etc.) or in the recommended daily intake more than three times the minimum daily requirements set forth in regulations under Sec. 403 (j) of the Food, Drug and Cosmetic Act will be accepted if they are advertised only to the physician.

For the past few years there has been uncertainty about the type of dosage statement that would meet statutory requirements for vitamin preparations, particularly those which provided a relatively high dosage. The Council was advised that the statement "Caution: For therapeutic use only, to be used by or on the prescription of a physician" for a thiamine preparation which supplied doses larger than 3 mgm. daily would meet the requirements of that Act and therefore such a statement has been required. Further consideration has been given to this problem, particularly because use of the term "caution" had a connotation which did not seem desirable for vitamin preparations. The Council has

received assurance that this caution statement will no longer be required and that the following type of statement is acceptable for thiamine preparations which supply more than 3 mgm. per tablet:—

Dose: One tablet daily, or as prescribed by the physician. This dosage is in excess of the quantity needed for prevention of thiamine deficiency.

Labelling Suggestions

The Council voted that this type of dosage statement should be made applicable to vitamin preparations which supply in each unit (tablet, capsule, etc.) or in the recommended daily intake more than 12,000 units of vitamin A, 1,200 units of vitamin D, 90 mgm. of vitamin C, 3 mgm. of thiamine hydrochloride, 6 mgm. of riboflavine or 30 mgm. of nicotinic acid. The Council has prepared suggested label statements to carry the recommendations into effect.

COMING EVENTS

Sunday, September 19

MANCHESTER PHARMACEUTICAL ASSOCIATION. Ramble. Bollington to Romiley via Bowstones Farm (about twelve miles). Meet London Road Station, 9.30 a.m. Book single to Bollington. Carry lunch and tea.

Monday, September 27

WEST HAM AND EASTERN DISTRICT ASSOCIATION OF PHARMACISTS, Church Institute, 27 Romford Road, Stratford, at 7.45 p.m. Members' night.

Saturday, October 2

ASSOCIATION OF SCIENTIFIC WORKERS (London Area Committee), Essex Hall, Essex Street, Strand, London, W.C.2, at 2.30 p.m. (till 7 p.m.). Conference on "Problems of Freed Europe—The Challenge to Medical Sciences."

Salvage.—Save envelopes and use them again and again (except for communications for posting overseas). Paper bags, too, can be used over and over again. Many firms have salvage stewards in every branch of their organisation who are responsible, among other things, for seeing that used packing material is sent back to their head office. There the salvage department examines all used packing materials to see what is suitable for re-use and what must be salvaged.

PERSONALITIES

MR. T. B. CHADWICK, M.P.S., Manchester (a member of the publishing staff of *THE CHEMIST AND DRUGGIST*), has been promoted Captain in the Home Guard.

LIEUTENANT P. CONSTABLE, R.N., son of Mr. P. S. Constable, M.P.S. (a representative of C. R. Harker, Stagg & Morgan, Ltd.), has been awarded the Distinguished Service Cross for daring on naval convoy escort work.

BIRTHS

O'SULLIVAN.—Recently, the wife of T. Brendan O'Sullivan, M.P.S.I., 67 Parnell Street, Dublin, of a daughter.

GEDDES.—At Dennistoun Nursing Home, Glasgow, on September 4, Babs, the wife of John Murray Geddes, M.P.S., 18 Newton Street, Glasgow, C.2, of a son.

LIND.—At Bellshill Hospital, on August 10, Rosabel, the wife of Robert Lind, B.Sc., Ph.C., 29 Beechwood Gardens, Mossend, Bellshill, Lanarks, of a son.

STORRAR.—At 10 Royal Terrace, Edinburgh, on September 5, Marian, the wife of Sergeant James Walt Storrar, M.P.S., R.A.M.C., Croydon, Carnwath, Lanarks, of daughter (Elizabeth Margaret).

MARRIAGES

THOMSON—RAMSAY.—At Glasgow, recently, William Hector White Thomson, M.P.S., Gallowgate Street, Largs, Ayrshire, to Elizabeth Ramsay, Bishopbriggs, nr. Glasgow.

Golden Wedding.—**McLAREN—TAIT.**—At Imperial Hotel, Edinburgh, on September 1893, Duncan McLaren, M.P.S., to Mary Gloag Tait. Present address: 20 Henderson Row, Edinburgh.

DEATHS

HEMINGWAY.—Recently, Mr. George Barrett Hemingway, M.P.S., 2 Barnfield Avenue, Romiley, Cheshire, aged seventy. Prior to his retirement in 1934, Mr. Hemingway had been in business at Prescott for a large number of years.

McEWAN.—Recently, Mr. Donald McEwan, M.P.S., 9 Elliot Place, Edinburgh, aged seventy-eight.

MACRAE.—Recently, Mr. Roderick Macrae, M.P.S., 34 Dalston Lane, London, E.8, aged sixty-two.

MARTIN.—At the Women's Hospital, Whitehouse Loan, Edinburgh, on September

5, Mrs. Margaret Frazer Thomson or Martin, M.P.S. Mrs. Martin qualified in 1921.

NOBLE.—At Thorn Villa, Bridge of Allan, on September 9, John Asher Noble, M.P.S. Mr. Noble qualified in 1921.

SELBY.—On September 9, Mr. Charles Selby, 74 Harpenden Road, Wanstead Park, London, E.12, aged eighty. Mr. Selby had been engaged in the Mincing Lane trade for over sixty years, from his boyhood until the early months of this year. He commenced his career with Donald Gray & Sons, produce brokers. On the winding-up of that business, he accompanied Mr. W. A. Gray to the firm of Bowyer & Bartlett, and later they both transferred to that of Slann & Davies. On the death of Mr. W. A. Gray, Mr. Selby took charge of the isinglass and crude drug department, until his retirement this year through ill-health. He had a good general knowledge of drugs, essential oils, Eastern and Chinese produce, and, through his long connexions, was one of the most widely known men in this area of the City.

WILSON.—Recently, Mr. George Waite Wilson, M.P.S., 137 Lewisham High Road, London, S.E.14, aged seventy-eight.

RECENT WILLS

MR. THOMAS HALE, M.P.S., 252 Stockingstone Road, Luton, who died on May 2, left £16,857, with net personalty £5,162.

MR. ALEXANDER GORDON BEATTIE, 15 Westburn Drive, Aberdeen, chemist, who died on April 23, left personal estate in Great Britain valued at £3,876.

MR. WILLIAM ARTHUR HARRISON NAYLOR, M.P.S., F.I.C., 8 Grove Street, Beeston, Notts, formerly of Bromley, Kent, late a director of Hearon, Squire & Francis, Ltd., who died on May 30, left £22,954, with net personalty £21,631.

MR. WILLIAM MASKEW, Ph.C., 57 St. Andrew Street, Hertford, lately in business as an antique dealer under the style of "Quineys," a member of the Hertford Borough Council for twenty-three years, who died on April 21, intestate, left £2,114, with net personalty £1,265.

MR. CHARLES JOHN SAMUEL THOMPSON, M.B.E., Ph.D., Old Place, Cuddington, Bucks, formerly curator of the Wellcome Historical Medical Museum, London, Honorary Curator of the Historical Collection of the Museum of the Royal College of Surgeons, who died on July 14, left £1,801, with net personalty £519.

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TRADE MARKS

(From "The Trade Marks Journal,"
September 1)

- "LA JOCONDE"; for perfumery, non-medicate
toilet preparations and cosmetics (3). By
Fragrance, Ltd., 316 Vauxhall Bridge Road,
London, S.W.1. 622,953.
- "HAYCOL"; for hair-waving sachets (3). By
A. W. Hayes, Ltd., 276 Moston Lane,
Manchester, 10. 623,858.
- "WALVET"; for laundry and cleaning prepara-
tions and for soaps (3). By Merbart Pro-
ducts, Ltd., Coventry House, Prestwood
Great Missenden, Bucks. 624,411.
- "ANDOMIA"; for analgesic and hypnotic
preparations (5). By G. W. Taylor, 4
Duncombe Street, Walkley, Sheffield
622,765.
- "OPTAZOME"; for pharmaceutical preparation
for the eyes (5). By John Richardson & Co.
(Leicester), Ltd., 62 Evington Valley Road,
Leicester. 622,813.
- "TREETOP"; for disinfectants (5). By De
Silkwear Protection, Ltd., Forfar Work
Spencer Road, Belper, Derbyshire. 623,30
- "FRUTONA"; for fruit-flavoured pharmaceu-
tical preparations (5). By The Dubarr
Perfumery Co., Ltd., Goldstone Laboratorie
Hove Park Villas, Hove, Sussex. B623,33.
- "MOOR'S HEAD BRAND" under device of Moor
head; for disinfectants (5). By Chromo
Ltd., Moorlands Hall, Birkenshaw, n
Bradford. 623,396.
- "TIMOSAN"; for veterinary preparations (5)
By J. Atkinson, Willow Bank, Moor End
Stalmine, nr. Fleetwood, Lancs. 623,406.

CORRECTION.—In the article "Vitamin
of the Pharmacopœia" (C. & D., Sep-
tember 11, p. 272), riboflavine should have
been referred to as vitamin B₂ and not as
described.

THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

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circulates throughout the Pharmaceutical, Chemical, Drug, Essential Oil, Perfumery, Cosmetic, Toilet Preparation and allied trades and Industries in Great Britain, Eire, the British Empire, and foreign countries

Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire

DL. CXL SEPTEMBER 18, 1943 NO. 3319

the fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.

Evidence Before a Statutory Committee

ONLY since the coming into force of the Pharmacy and Poisons Act, 1933, have chemists had experience of the powers of a professional disciplinary body. Consequently matters affecting similar controlling organisations have now particular interest to members of the Pharmaceutical Society. The case in point is a recent decision in the House of Lords, when the General Medical Council appealed against a decision of the Court of Appeal. The matter arose originally when, following divorce proceedings in which a medical practitioner was cited as co-respondent, the G.M.C. ordered the doctor's name to be erased from the Medical Register. The doctor appealed to the King's Bench Division, which refused to interfere, but the Court of Appeal overruled the court below, Lord Justice MacKinnon holding that "due inquiry" involved a full and fair consideration of any evidence that the accused desired to offer, and, if he tendered them, hearing his witnesses. The House of Lords upheld the decision of the Court of Appeal and dismissed the appeal of the G.M.C.

In the course of his judgment the Lord Chancellor said that before the Council

the doctor's solicitor submitted that he should be allowed to call certain evidence which was not before the Divorce Court, with a view to challenging the correctness of the Judge's conclusions on the issue of adultery. The whole question turned on Section 29 of the Medical Act, 1858.

A Significant Distinction

That section drew a significant distinction between a case in which the impeached practitioner had been convicted of felony or misdemeanour, and a case in which the allegation of infamous conduct was not connected with a criminal conviction. In the former case the decision of the Council was properly based on the fact of the conviction, and the practitioner could not go behind it and endeavour to show that he was innocent of the charge and should have been acquitted. In the latter case the decision of the Council, if adverse to the practitioner, must be arrived at "after due inquiry," and that, of course, meant after due inquiry by the Council. The question therefore was whether the Council in the present case could be regarded as having reached their adverse decision "after due inquiry" when they had refused to hear evidence tendered by the practitioner with a view to showing that he had not been guilty of the infamous conduct alleged and that the finding of the Divorce Court against him as co-respondent was wrong. It was worth observing that this problem did not arise only in connexion with conclusions reached in the Divorce Court. A judgment for the plaintiff in an action for seduction, a bastardy order made by a bench of magistrates—those, and many other, instances of adverse conclusions reached in a Court of law might conceivably in certain circumstances lead to a charge against a medical man of infamous conduct in a professional respect. It seemed obvious, in those other instances, that while the Council might well treat the conclusion reached in the Courts as *prima facie* proof of the matter alleged, they must, when making "due inquiry," permit the doctor to challenge the correctness of the conclusion and to call evidence in support of his contention.

The Council's Responsibility

Lord Atkin said it was plain that the Act of Parliament threw on the Council

and the Council alone the duty of holding due inquiry. They could not rely on inquiry by another tribunal or on a judgment of guilt by another tribunal. The practitioner was entitled to a judgment which was the result of the considered deliberation of his fellow-practitioners. They must therefore hear him and all relevant witnesses and other evidence he might wish to adduce. It was not disputed that the High Court judgment might afford *prima facie* evidence, but the very conception of *prima facie* evidence involved the opportunity of controverting it. He entertained no doubt that the Council were bound, if requested, to hear all the evidence the practitioner brought before them. Lords Macmillan, Wright and Romer concurred.

It is of interest to compare Section 29 of the Medical Act, 1858, with Section 7 (1) of the Pharmacy and Poisons Act, 1933:—

Section 29

If any registered medical practitioner shall be convicted in England or Ireland of any felony or misdemeanour, or in Scotland of any crime or offence, or shall after due inquiry be judged by the General Council to have been guilty of infamous conduct in any professional respect, the General Council may, if they think fit, direct the Registrar to erase the name of such medical practitioner from the register.

Section 7 (1)

If a registered pharmacist, or a person employed by him in the carrying on of his business, has been convicted of any such criminal offence, or been guilty of such misconduct as, in the opinion of the Statutory Committee, renders him, or in the case of an employee, would if he were a registered pharmacist, render him unfit to be on the register, the committee, after making inquiry into the case, may, subject to the provisions of this Act, direct the Registrar to remove the name of the pharmacist from the register.

A pharmacist aggrieved by a direction given by the Statutory Committee or by the refusal by the Committee of an application to give a direction may, under Section 14 of the 1933 Act, appeal to the High Court and the order of the Court is final. In this connexion some important statements were made at the recent Branch Representatives' Meeting. During the discussion on the list of diseases in respect of which advertisements of medicines should not be issued to the public by chemists, Mr. Wilson (a member of the

Pharmaceutical Society's Council) said that breaches of the Statement of Professional Conduct would be reported to the Statutory Committee, and it would be open to that body to take what action it considered appropriate. In reply to a question concerning an appeal to the High Court, Mr. Hugh N. Linstead, M.P. (Registrar of the Society), said: "The High Court would come into the picture only in the event of the Statutory Committee taking some action, and if the Statutory Committee heard what the man had to say, and gave him every opportunity of presenting his case, the High Court was not likely to interfere with the decision of the Statutory Committee." Mr. Linstead's opinion is interesting but it is important that a member of the Society, in the event of being an aggrieved person, should realise that he has a right of appeal to the High Court.

It will be noted that the wordings of the Sections of the Acts quoted above differ somewhat and that the medical case turned on the interpretation of "after due inquiry" in a case of alleged infamous conduct, whereas the Statutory Committee, whether it is a matter of criminal offence or infamous conduct, can only remove a name "after making inquiry." So far as we can recall the Statutory Committee and its proceedings have not been the subject of discussion at branch meetings of the Pharmaceutical Society, but in the light of recent events they might well be. Moreover, with the reverberations that have taken and are likely to take place in pharmacy since the most recent legislation was passed, it is quite possible a new Pharmacy Act will be needed before long, and the opportunity could be taken to clarify any matter about which there may be a doubt. It is no use waiting until a Bill is before Parliament.

Centenary of a Charter

MENTION of the Royal College of Surgeons in connexion with a Charter Centenary may momentarily cause surprise to those who recall that some months have elapsed since the much younger Pharmaceutical Society commemorated the hundredth anniversary of the granting of its own Charter. Actually

the Surgeons' Charter was not the first in the long history of the College, which dates back to 1460-61. The reigning monarch at that time, Edward IV, "did, at the supplication of the freemen of the mystery of barbers of the city of London, using the mystery or faculty of Surgery, grant to them that the said mystery, and all men of the same mystery of the said city, should be one body and perpetual community." Barber-surgeons they remained until 1745, when, by a new Charter, the Royal College of Surgeons became a separate entity; in 1800 the privileges of the College were confirmed, and the name was changed to the Royal College of Surgeons in London.

The main effects of the present Charter, which was granted on September 11, 1843, were threefold. First, the name was changed to the Royal College of Surgeons of England; secondly, a class of Fellows was created, limited at first to between 50 and 300; and finally the method of government was changed from a close oligarchy to control by an "aristocracy" consisting of the Fellows. The change was very largely engineered by Sir Benjamin Collins Brodie, one of the most eminent surgeons of his day—president of the Royal Society in 1858; first president of the General Medical Council; and a pioneer in surgery (he described the first subcutaneous operation on record). Sir Benjamin had been much impressed by the manner in which government of the Royal Society had been vested in a minority of members who had achieved eminence, and it was on the method of control by the "cream" of its membership that the new Charter of the Royal College of Surgeons was based. The principle still holds. The first Fellows were selected from their records by the existing Council. Subsequently a Fellowship has been the reward of passing an examination of exceptional difficulty. A point of interest to pharmacists is that Brodie, after laying the foundation of his immense mastery of the subject of anatomy by attendance at the Hunterian school, Great Windmill Street, London, "learned pharmacy in the shop of Mr. Clifton in Leicester Square, one of the licentiates of the Apothecaries' Company." It may be supposed that his knowledge of pharmacy contributed to the

broad and constructive outlook of which he gave evidence in his activities in the whole field of surgery and medicine.

Lingua Franca

IN one respect pharmacists have been for many years at an important advantage over the lay public. They have shared the language of their profession with colleagues in all other civilised countries. True, there have been minor variations of interpretation. Hydrargyri perchloridum in one pharmacopoeia may become hydrargyri bichloridum or even hydrargyrum bichloratum in another. Broadly speaking, however, a pharmacist has no difficulty in theory, and but little more in practice, in interpreting the prescriptions of a foreign medical man. Pharmaceutical Latin is, unlike suggested "international languages" of synthetic composition, a survival and not an innovation. It remains, perhaps, as a last trace of a Roman civilisation that once held sway over the major portion of the European continent. Its retention in the medical and pharmaceutical professions was neither purely utilitarian nor wholly a monopolistic practice intended to mystify the layman, though undoubtedly both these ends have been served, whether intentionally or otherwise.

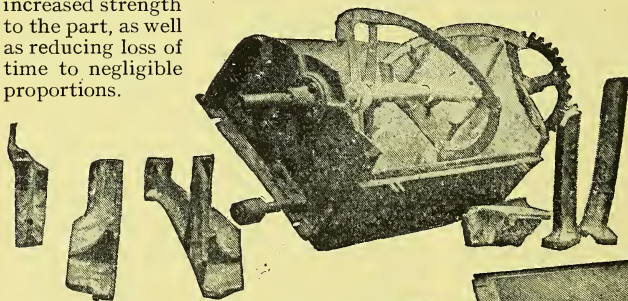
Appreciating, therefore, the benefits of their own international language, pharmacists would be the last to cavil at the adoption of Basic English—championed by Mr. Churchill—as an international lingua franca, if not strictly an international language. They would not even complain if the motive were partly the benefit of their countrymen while mainly the welfare of the foreigner. They will not be prevented from hoping, however, that, having mastered the 850 words of Basic, foreign pharmacists and prescribers will not decide they can do as well with that as with Latin. "Medical substance in liquid" of "blue-flowered plant from which medical substance is got" may serve well enough for a Frenchman who, having looked up "teinture" and "scille" in a French-Basic English dictionary, finds there the definitions given. As an alternative to *Tr. Scillae* on a prescription it leaves much to be desired.

AN INDUSTRIAL HANDICAP THAT CAN BE MET

by C. W. Brett, M.Inst.W.

TRADING nowadays is hedged about with so many limitations that it is almost startling to note how some manufacturers, whilst scrupulously observing both letter and spirit of the law, carry on far more easily than others. Sometimes personality is contributory, but more often the answer lies in the extent to which resources that remain freely available are realised and turned to good account.

No more pertinent example of this can be quoted than the assistance afforded by scientific welding. The help welding offers to those engaged in the drug trade, for example, extends from manufacturing processes to retail trade. In varying degree all sections of the trade are liable to experience trouble, directly or indirectly, from broken, worn or corroded metal parts. Some aspects of the help that can be given in difficulties of this kind have been dealt with previously, but there are other equally useful applications of welding. Often the adoption of this process is so valuable as actually to give increased strength to the part, as well as reducing loss of time to negligible proportions.



Above, An extensively damaged mixing-machine, apparently only fit for the scrap-heap. Right, The same machine repaired by scientific welding at a fraction of material and working hours needed for replacement.

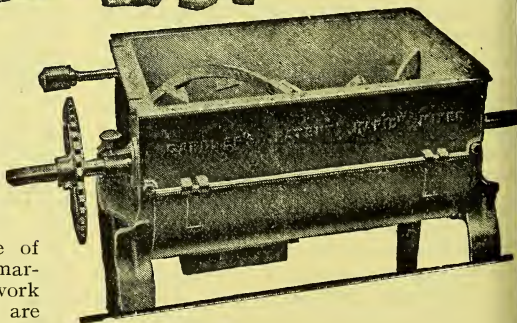
Gas or Electric Welding

In passing, it may be noted that gas and electric welding are seldom competitive. Each has its sphere of usefulness, though the line of demarcation is not rigid. For repair work upon steel the electric processes are mainly used. Re-union of broken crankshafts of transport vehicles and cars is carried out on a large scale. At the present time, with replacements, particularly of this type, so difficult to procure,

the value of welding is inestimable. At one time an obstinate trouble was pit mark in the weld metal. In some applications this did not matter, but if the breakage involved a bearing surface which needed to be highly finished to a tolerance of one thousandth part of an inch, then an imperfection, however slight, could not be tolerated. The cause of the minute flaws, the affinity of the molten metal for the oxygen content of the atmosphere, and the cure has proved simple, though a great deal of experimental work was entailed before the obstacle was overcome. Nowadays, in the reconditioning of steel components, air is not allowed to come into contact with the seat of repair while the work is in progress. Access is denied by enveloping the part in hydrogen supplied either from a high-pressure cylinder or by the more simple expedient of using a coated welding rod that gives off the requisite amount of gas when heated in the normal course of the work. The result is an invisible weld of high quality and great strength.

Retail Applications

The process is used for a variety of needs. With the same dependability and under the usual guarantee, it is employed for rebuilding gear wheels that seem

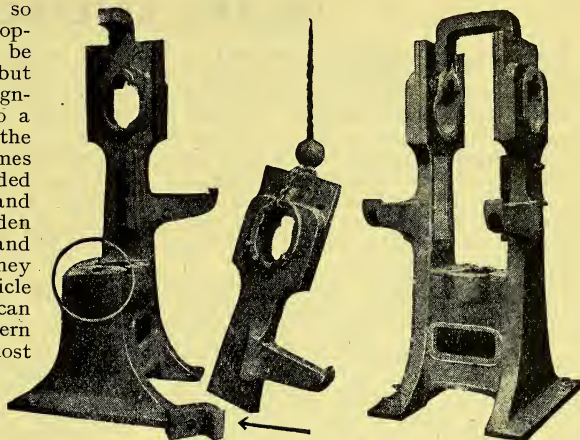


at least to the layman, beyond all aid. Even when teeth are broken away and lost they can be built up afresh. Moreover, it is not simply in regard to costly components that

scientific welding can be used so effectively. All kinds of shop-fittings, and the like, can be handled with little cost but permanent results. The consign-ent of any damaged part to a scrap heap hinders, not helps, the national effort if it becomes necessary to replace a discarded item with a new one. To demand a new part adds to the burden upon the nation's labour and material resources, for the journey from furnace to finished article is complex. So much more can be accomplished by modern methods of welding than most people suppose, that it is always best to seek expert advice, particularly when a job seems hopeless. Such helps costs nothing and no repair is accepted unless the result is certain to be satisfactory and permanent.

Factories

Engineers who are responsible for the maintenance of factory plant are more familiar with the resources that modern welding technique offers, but even so the opportunity is not fully exploited. Some



Power presses are used for the production of many pharmaceutical preparations, and inaccurate "setting" sometimes results in a breakage like the one illustrated (At left, above). An accident need not irretrievably ruin the machine; within a few days, by scientific welding, the damage is repaired and the press perfectly restored. At right, a repair carried out in the welding works of Barimar, Ltd., London.

managements accept handicaps that might be cleared away at once did they but remember that broken, worn or corroded metal can be restored fully by applying the methods briefly outlined.

AMERICAN MEDICINAL PLANT CULTIVATION

The United States now co-operates closely with Central and South American and Caribbean nations in the development of essential and drug plants. In Mexico alone, eight important drug plants, hitherto grown at considerable distances from the United States, are being cultivated. These include belladonna, red squill, senna, peppermint, pyrethrum, henbane and stramonium. Mexico is expected to continue cultivation of most of these plants permanently.

The importance with which pyrethrum, for example, is viewed officially in the United States is indicated by the fact that agricultural stations have been established in co-operation with the Mexican Department of Agriculture at Valle de Bravo, Jesus Marzan, Villa Guerrero, Colima, Morelia, Mecameca, Tampico, Guanajuato, Ajijic and Ensenada. Among the more important essential oil plants now being cultivated are petitgrain; citronella; lemongrass; geranium; lavender; vetivert; neroli; ylang-ylang; cinnamon, cassia and tuberose; rose oil; ylang-ylang and bergamot. The Jewish refugee colony at Sosua on the north

shore of Santo Domingo has made extensive plantings of citronella, lemongrass and ylang-ylang. Porto Rico is experimenting in production of citronella grass and is also growing jasmine, gardenia, cassia and mimosa.

In Chile the Corporacion de Fomento provides loans to farmers for the cultivation of medicinal and spice plants and the production of essential oils. Cultivation of peppermint and lavender is not yet enough for home needs, but growers look forward to an exportable surplus. Pine and eucalyptus oils are being exported from Chile, and fennel and bollo oils can be produced in large quantities if there are sufficient markets for them. The following medicinal and spice plants are already produced in Chile in good quantities: Pyrethrum, fenugreek, coriander, white mustard, borago, poppy, saffron, goat's rue, marjoram, sage, rhatany and quillaia. Chile's exports of soapbark, totalling between 2,500 and 3,000 tons, formerly went to Germany. Petitgrain is being produced in Paraguay and northern Argentina.

RECENT RESEARCH

Assay of Sulphonamide Ointments.—A technique for the estimation of sulphonamide drugs in ointments, in which isopropyl ether is first used to dissolve the base, is described by Conway in the "Journal of the American Pharmaceutical Association" (xxxii, 7, 169). Bromination is the basis of the subsequent sulphonamide assay, the author considering this method more convenient than the at present more usual method of diazotisation.

Vitamins and Hair Colour.—Although Brandaleone and other workers ("Journal of the American Medical Association," 122, 13, 875) obtained an "unequivocal change of colour" in the hair of two grey-haired patients to whom, out of a group of nineteen patients, they administered calcium pantothenate and para-aminobenzoic acid, their finding is that "much of the publicity concerning anti-grey-hair factors has left a distorted impression on the public." The most common effect noted was the introduction of a yellow or greenish tinge into the grey hair. Growth of scattered black hair was also found. All the patients were elderly, and all were seen by the same two observers twice a month for purposes of comparative observations. No experiments have yet been carried out on grey hair in youthful patients.

Evaluating Laxative Agents.—Gold and Zahm ("Journal of American Pharmaceutical Association," xxxii, 7, 173) describe a method for the evaluation of laxative agents in constipated human subjects. This is combined with a study of the comparative laxative potency of fumarates, sodium tartrate and magnesium acid citrate. The criterion on which most reliance was placed was the incidence of positive responses to a series of doses. The most precise results were secured in cases in which all the agents were compared in one and the same person. The subjects were ambulant patients who had been in regular attendance at clinics during periods varying from several months to several years. The constipation was functional. Its character was such that a laxative was found necessary at least twice a week. The laxative agent under investigation was taken following the lapse of several hours after the expected daily bowel movement (always twenty-four hours or longer since the last bowel movement). A simple record form was issued. It included the following items: Day of the week, time medicine was taken, time of the bowel movement,

kind of bowel movement (normal, loose, hard, watery). The patient filled this out at the time and returned it during the subsequent visit to the clinic. Five compounds were studied: Sodium fumarate, magnesium fumarate, calcium fumarate, sodium tartrate and magnesium acid citrate. They were dispensed in powder containing 10 gm. each. The powder was taken dissolved in one-half glass of water followed by one-half glass of water. The plan of the study involved the assumption that if a patient took a fixed dose of a laxative agent for constipation, and repeated the dose as the condition recurred at intervals over a period of three to four weeks, the incidence of positive response would vary with the potency of the agent.

The authors claim to have accumulated sufficient general evidence to make the basic assumption valid. The examination showed that the laxative efficacies of the fumarates of sodium, calcium and magnesium are equal, and that the three also possess approximately the same laxative potency as sodium tartrate and magnesium acid citrate, gram for gram. A 10-gm. dose of any of the compounds produces a bowel movement within an average of about six hours in about 75 per cent. of the times it is used in patients in need of a laxative. The fumarates are considered to provide satisfactory substitutes for the tartrates as laxative agents, without the potential nephrotoxic hazards of the tartrates.

Sterile Sulphonamide Ointments.—That ointments containing 5 per cent. sulphanilamide, sulphathiazole or sulphadiazine in a water-dispersible base may become contaminated with disease-bearing organisms which the sulphonamide constituent is powerless to kill is the finding of Fisher, Accousti and Thompson in the "Journal of the American Medical Association" (122, 13, 855). The remedy that suggests itself is the addition of small amounts of other chemicals, particularly oxidising agents, which greatly increase the self-sterilising properties of the ointments. Of those studied by the authors, the most practical and effective was found to be urea peroxide, which they suggest should be added in not more than 1 per cent. concentration. Higher concentrations give rise to objectionable irritant effects. Benzoyl and zinc peroxides were also tested, the former with partial and the latter with small success.

TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency

28 Essex Street, W.C.2, September 15

THE past week has brought to the London drug and chemical markets a good deal of inquiry for commodities now in short supply, but little in the way of actual business; few price changes have occurred, but they are of a minor character. The latest war developments have opened up prospects of receiving supplies of CRUDE DRUGS and ESSENTIAL OILS from Southern Italy, and naturally a good deal of interest has been aroused in trade circles. A considerable time may elapse before such transactions become possible, and it is extremely unlikely that in any event private firms will be able to import goods from this source while the present emergency lasts. It is reasonable to assume, however, that in due course shipments will be forthcoming, probably on government account, of items that are considered useful for the war effort or to meet legitimate civilian requirements. No developments of importance have occurred during the week in PHARMACEUTICAL CHEMICALS, in which steady business is being done.

Crude Drugs

Business in this section of the markets is proceeding quietly, practically all the orders coming from home consuming industries. It is noteworthy that, of the many inquiries now being received by dealers, a large proportion concern crude drugs that have been off the market for many months, and which are not likely to be replaced until after the war. Such inquiries go round the trade with entirely negative results, and dealers are obliged to expend time and energy in providing replies, without the compensation of possible business. Business in AGAR is confined to occasional sales of Kobe No. 1 material for bacteriological use. It is difficult to locate spot supplies of Cape ALOES, but a few small parcels are understood to be floating. BALSAM TOLU is firmly held at the rather higher price indicated last week. A small trade is passing in BENZOIN, supplies of which are reserved for the manufacture of B.P. preparations. No supplies of BUCHU will be available to meet the demand until the next quotas are issued. Re-sale prices for small quantities of CAMPHOR imported by the Ministry of Supply have not yet been made known. Inquiries persist for

CASCARA SAGRADA, but no supplies of bark can be found to meet the demand. Quiet conditions obtain for ERGOT, with really sound material in meagre supply. Spot stocks of IPECACUANHA appear to be practically exhausted. Maximum brokers' and wholesalers' prices have been fixed for natural MENTHOL (details on p. 280). RHUBARB is selling fairly well at last-mentioned prices; supplies, while adequate, cannot, when once exhausted, be made good under present conditions. SEEDS continue neglected, yet no further price reductions have occurred. Considerable inquiry is noted for STROPHANTHUS seed. TURMERIC is easier on account of lack of demand.

Essential Oils

The demand for ESSENTIAL OILS has recently improved, but the difficulty is to locate sufficient supplies of the "free" oils to meet requirements. Consumers would naturally prefer to purchase controlled oils at the much cheaper official rates but, until these are available, they may be obliged to pay the higher prices in order to carry on. The official scheme appears to be proceeding satisfactorily, and it is understood that some allocations are expected to be made in the early future. No changes have been announced in the prices of FIXED OILS and FATS.

Pharmaceutical Chemicals

ACETANILIDE.—In ample supply at 2s. 5d. per lb. for crystals, and 2s. 6d. for powder.

ALLOBARBITONE.—No change in makers' price at 60s. per lb.

ASPIRIN.—Steady. Makers quote per lb. as follows: 28 lb.—1 cwt. (containers in brackets): 4s. (1-lb.); 3s. 10½d. (4-lb.); 3s. 9½d. (7-lb.); 3s. 9d. (14-lb.); 3s. 8½d. (28-lb.). Prices are net one month.

ATROPINE.—Makers' prices per oz. are unchanged: ALKALOID, 1 oz., 35s.; 4 oz., 34s. 6d.; 25 oz., 34s. SULPHATE, 1 oz., 28s.; 4 oz., 27s. 6d.; 25 oz., 27s. METHYL BROMIDE and METHYL NITRATE, 1 oz., 65s.

BARIUM SULPHATE, B.P. (x-ray).—Prices range from 1s. 2d. to 1s. 9½d. per lb., according to quantity and container.

BISMUTH CO., PULV., N.F.—Prices per lb., in quantities of 28 lb. to 1 cwt. are as follows (containers in brackets): 2s. 3½d. (1-lb.); 2s. 2d. (4-lb.); 2s. 1d. (7-lb.); 2s. (28-lb.). Terms net, one month.

BISMUTH SALTS.—Makers' current schedule is as follows:—

Salt	Under 4 lb.	4 lb. and under 8 lb.	8 lb. and under 28 lb.	28 lb. and under 1 cwt.	Not less than 1 cwt.
	s. d.	s. d.	s. d.	s. d.	s. d.
Carbonate ..	11 8	11 2	10 5	9 0	8 9
Citrate ..	14 0	13 6	12 9	11 0	10 9
Nitrate cryst.	8 0	7 6	6 9	6 0	5 9
Oxide ..	15 10	15 4	14 7	12 6	12 3
Salicylate ..	12 3	11 9	11 0	9 6	9 3
Subchloride ..	15 6	15 0	14 3	12 3	12 0
Subgallate ..	14 3	13 9	13 0	11 6	11 3
Subnitrate ..	10 3	9 9	9 0	7 10	7 7

Nitrate and oxide are not available for contracts.

BORIC ACID.—Makers' quotations are as follows: B.P. granulated, £60 15s. per ton; crystal, £61 15s.; powder, £62 15s. Packed in one-cwt. bags, delivered carriage paid in Great Britain, in one-ton lots and upwards. Commercial grades, £8 per ton less.

BROMIDES.—**POTASSIUM** is quoted by makers as follows (containers in brackets): 3s. 5½d. per lb. (1-lb.); 3s. 3¾d. (4-lb.); 3s. 2¾d. (7-lb.); 3s. 2¼d. (14-lb.); 3s. 1¾d. (28-lb.). **SODIUM**, ¾d. per lb. extra; **AMMONIUM**, 2¾d. per lb. extra; powder, 2d. per lb. extra.

CITRATES.—Makers' current schedule is as follows:—

Quantity	In containers of				
	1 lb.	4 lb.	7 lb.	14 lb.	28 lb.
	s. d.	s. d.	s. d.	s. d.	s. d.
Under 4 lb. ..	3 6½	—	—	—	—
From 4 lb. ..	3 5½	3 4	—	—	—
From 7 lb. ..	3 4½	3 3	3 2	—	—
From 14 lb. ..	3 3½	3 2	3 1	3 0½	—
28 lb. to 1 cwt.	3 2½	3 1	3 0	2 11½	2 11

IRON AND AMMONIUM (Scales), B.P., is at 3d. per lb. above, and **SODIUM** is at 1d. per lb. below the table prices. All prices are net, packages extra. Sales are conditional on buyer's undertaking not to resell below the values given.

COCAINE.—British makers' current wholesale prices are as follows: **HYDROCHLORIDE** and **NITRATE**, 25 oz. and over, 35s. 8d.; 16 oz. and less than 25 oz., 36s. 10d.; over 8 oz. and less than 16 oz., 38s. per oz. **ALKALOID**, **CITRATE** and **SALICYLATE**, 25 oz. and over, 39s. 1d.; 16 oz. and less than 25 oz., 40s. 4d.; over 8 oz. and less than 16 oz., 41s. 7d. per oz., 16-oz. packages free, smaller packing extra. The scale of prices applicable to distributors of smaller quantities is as follows: **HYDROCHLORIDE** and **NITRATE**, 8 oz., 40s.; 4 oz. and less than 7 oz., 40s. 7d.; 2 oz. and less than 4 oz., 41s. 6d.; 1 oz. and less than 2 oz., 42s. 7d.; ½ oz. and less than 1 oz., 44s. 2d.; ¼ oz. and less than ½ oz., 47s. 3d. per oz. **ALKALOID**, **CITRATE** and **SALICYLATE**, 8 oz., 43s. 5d.; 4 oz., and less than 8 oz., 44s.; 2 oz., and less than 4 oz., 44s. 11d.; 1 oz. and less than 2 oz., 46s. 2d.; ½ oz. and less

than 1 oz., 47s. 9d.; ¼ oz. and less than ½ oz., 50s. 10d. per oz., packages extra. Re-sale: Sales are subject to buyers' undertaking not to re-sell any quantity below current scale. Export prices vary according to destination.

CODEINE.—Makers' prices per oz. are as follows: **ALKALOID.**—½ oz., 48s. 3d.; 1 oz., 45s. 9d.; 2 oz., 44s. 3d.; 3 oz., 43s. 6d.; 4 oz., 43s. 3d. **HYDROCHLORIDE.**—½ oz., 42s.; 1 oz., 39s. 6d.; 2 oz., 38s.; 3 oz., 37s. 3d.; 4 oz., 37s. **PHOSPHATE.**—½ oz., 37s. 9d.; 1 oz., 35s. 3d.; 2 oz., 33s. 9d.; 3 oz., 33s.; 4 oz., 32s. 9d.

CREAM OF TARTAR.—Quoted by British makers at 262s. per cwt., less 2½ per cent. discount.

DEXTROSE, B.P.—Quoted at the following rates per lb., in quantities of 28 lb. to 1 cwt. (containers in brackets): 1s. 2½d. (1-lb.); 1s. 1¾d. (2-lb.); 1s. 0¾d. (4-lb.); 11¾d. (7-lb.); 11¼d. (14-lb.); 10¾d. (28-lb.).

GLYCERIN.—Prices per cwt., for small supplies are as follows: 56-lb. tin, 99s.; 14-lb. tin, 105s.; subject to 2½ per cent. discount, twenty-eight days.

GUAIACOLS.—**CRYSTALS** and **CARBONATE**, unchanged from 14s. to 15s. per lb.

HOMATROPINE.—Makers' prices per oz. are as follows (prices per gram in brackets): **ALKALOID**, 1 oz., 97s. 6d.; 4 oz., 92s. 6d.; 16 oz., 87s. 6d. (4s.). **HYDROCHLORIDE**, **HYDROBROMIDE** and **SULPHATE**, 1 oz., 75s.; 4 oz., 70s.; 16 oz., 65s. (3s. 2d.).

IODINE PREPARATIONS.—Prices per lb. for the home market are as follows: **POTASSIUM IODIDE**, B.P.—112 lb., 9s.; 28 lb., 9s. 6d.; 14 lb., 10s.; 7 lb., 11s. 6d.; 4 lb., 12s.; smaller quantities, 12s. 6d. **SODIUM IODIDE**, B.P.—28 lb., 9s. 11d.; 14 lb., 10s. 5d.; 7 lb., 12s. 2d.; 4 lb., 12s. 10d.; smaller quantities, 13s. 8d. **IODOFORM**, B.P.—28 lb., 12s. 10d.; 14 lb., 13s. 4d.; 7 lb., 15s. 6d.; 4 lb., 16s. 4d.; smaller quantities, 17s. 2d. **IODOFORM CRYSTALS.**—2s. per lb. above powder prices. **IODINE RESUBLIMED**, B.P.—112 lb., 10s. 4d.; 28 lb., 10s. 10d.; 14 lb., 11s. 4d.; 7 lb., 13s. 1d.; 4 lb., 13s. 9d.; smaller quantities, 14s. 6d.

MAGNESIUM CARBONATE, HEAVY.—Makers quote for the home trade the following prices per lb. in quantities of 28 lb.—1 cwt. (containers in brackets): 1s. 6½d. (1-lb.); 1s. 5d. (4-lb.); 1s. 4d. (7-lb.); 1s. 3½d. (14-lb.); 1s. 3d. (28-lb.). Prices net one month.

MAGNESIUM CARBONATE, LIGHT.—Home market prices have been adjusted as follows:—

Quantity	In containers of				
	1 lb.	4 lb.	7 lb.	14 lb.	28 lb.
	s. d.	s. d.	s. d.	s. d.	s. d.
1 lb. to 4 lb.	1 6½	—	—	—	—
4 lb. to 7 lb.	1 5½	1 4	—	—	—
7 lb. to 14 lb.	1 4½	1 3½	1 2	—	—
14 lb. to 28 lb.	1 3½	1 2	1 1	1 0½	—
28 lb. to 1 cwt.	1 2½	1 1	1 0	11½	11

Prices net one month.

MAGNESIUM OXIDE, LIGHT.—Makers' prices per lb. for the home market, for quantities of 8 lb.—1 cwt., are as follows (containers in brackets): 2s. 8d. (1-lb.); 2s. 6½d. (4-lb.); s. 5½d. (7-lb.); 2s. 5d. (14-lb.); 2s. 4½d. (28-lb.).

MAGNESIUM SALTS.—Prices of the leading salts were given last week (pp. 252 and 253).

MAGNESIUM TRISILICATE.—Makers quote for the home market, in quantities of 28 lb.—1 cwt., s follows (containers in brackets): 3s. 6½d. per b. (1-lb.); 3s. 5d. (4-lb.); 3s. 4d. (7-lb.); s. 3½d. (14-lb.); 3s. 3d. (28-lb.).

MANDELATES.—Quoted as follows: SODIUM and CALCIUM.—4 oz., 8 oz. and 1 lb., 22s. per b.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb. (in 7-lb. packages), 16s. 9d.; 28 lb. (in 7-lb. packages), 15s. per lb., net. AMMONIUM (50 per cent. solution)—4 oz., 8 oz. and 1 lb., 11s. 9d. per lb.; 4 lb., 10s. 9½d.; 7 lb., 9s. 10d.; 14 lb. (in 7-lb. packages), 8s. 11½d.; 28 lb. (in 7-lb. packages), 7s. 11d. per lb. net. Packages extra and returnable.

MERCURY IODIDES.—The following are makers' prices per lb.; RED, less than 7 lb., 8s. 8d.; not less than 7 lb., 20s. 2d.; not less than 14 lb., 19s. 8d. GREEN, less than 7 lb., 8s. 8d.; not less than 7 lb., 26s. 2d.; not less than 14 lb., 25s. 8d. YELLOW, less than 7 lb., 8s. 1d.; not less than 7 lb., 27s. 7d.; not less than 14 lb., 27s. 1d. net, carriage paid.

OPIMUM ALKALOIDS.—Current prices are:—

	½ oz.	1 oz.	2 oz.	3 oz.	4 oz.
	s. d.	s. d.	s. d.	s. d.	s. d.
codeine					
Alkaloid	48 3	45 9	44 3	43 6	43 3
Hydrochloride					
Alkaloid	42 0	39 6	38 0	37 3	37 0
Phosphate	37 9	35 3	33 9	33 0	32 9
morphine					
Alkaloid	53 0	50 6	49 0	48 3	48 0
Hydrochloride					
Alkaloid	43 9	41 3	39 9	39 0	38 9
Hydrochloride					
Alkaloid	54 0	51 6	50 0	49 3	49 0
Hydrochloride					
Alkaloid	49 0	46 6	45 0	44 3	44 0
thylmorphone					
Alkaloid	51 0	48 6	47 0	46 3	46 0
Hydrochloride					
Alkaloid	43 0	40 6	39 0	38 3	38 0

SALICYLIC ACID.—A price schedule recently issued gave slightly increased prices for the small sizes:—

Quantity	In containers of				
	1 lb.	4 lb.	7 lb.	14 lb.	28 lb.
	s. d.	s. d.	s. d.	s. d.	s. d.
1-4 lb. . .	2 10	—	—	—	—
4-7 lb. . .	2 9	2 7½	—	—	—
7-14 lb. . .	2 8	2 6½	2 5½	—	—
14-28 lb. . .	2 7	2 5½	2 4½	2 4	—
3 lb.—1 cwt.	2 6	2 4½	2 3½	2 3	2 2½

Prices net one month.

PHENOLPHTHALEIN.—Makers quote as follows: Less than 7 lb., 4s. 6d. per lb.; 7 lb., 4s. 5d.; 14 lb., 4s. 4d.; 28 lb., 4s. 3d.; 1 cwt., 4s. 2d.

POTASSIUM PERMANGANATE.—B.P. steady at makers' quotation of 1s. 10d. per lb.

SANTONIN.—Home-trade prices, details of which were given last week (p. 275), are unchanged.

SODIUM BENZOATE.—Available at from 2s. 9d. to 3s. per lb., according to quantity.

SODIUM SALICYLATE.—Makers' slightly adjusted price schedule is as follows:—

Quantity	In containers of				
	1 lb.	4 lb.	7 lb.	14 lb.	28 lb.
	s. d.	s. d.	s. d.	s. d.	s. d.
1-4 lb. . .	3 3½	—	—	—	—
4-7 lb. . .	3 2½	3 1	—	—	—
7-14 lb. . .	3 1½	3 0	2 11	—	—
14-28 lb. . .	3 0½	2 11	2 10	2 9½	—
28 lb.—1 cwt.	2 11½	2 10	2 9	2 8½	2 8

Prices net one month.

STRYCHNINE SALTS.—Makers' prices are as follows:—

Compound	Under 25 oz.	25 oz. and under 100 oz.	100 oz. and under 500 oz.
	s. d.	s. d.	s. d.
Alkaloid, crystalline	4 11	4 9	4 7½
Alkaloid, precipitated	4 11	4 9	4 7½
Acetate	5 2	5 0	4 10½
Arsenate	5 2	5 0	4 10½
Arsenite	5 2	5 0	4 10½
Bisulphate	4 1	3 11	3 9½
Hydrochloride	4 8	4 6	4 4½
Hypophosphite	8 5	8 3	8 1½
Nitrate, crystalline	4 8	4 6	4 4½
Nitrate, powder	4 8	4 6	4 4½
Nitrate, powder, No. 2	3 11	3 9	3 7½
Phosphate	5 11	5 9	5 7½
Sulphate, neutral, cryst.	4 3	4 1	3 11½
Sulphate, neutral, powder	4 3	4 1	3 11½
No. 2	3 8	3 6	3 4½

25-oz. containers and outer cases free; smaller packages extra. Contracts may be booked for quantities of 100 oz. and over, with rise-and-fall clause, for a period of six months. Terms, net thirty days. Wholesale distributors' prices for small quantities would be dearer.

SULPHANILAMIDE.—Price ranges from 10s. 6d. to 12s. 6d. per lb., according to quantity.

TANNIC ACID.—Current prices range between 9s. and 10s. per lb.

TARTARIC ACID.—B.P. crystal is quoted by makers at 3s. 1½d. per lb., less 5 per cent. discount.

TERPINEOL.—For medicinal use only at 3s. 6d. to 4s. per lb.

VANILLIN.—Material made from clove oil or guaiacol is quoted at from 22s. 6d. to 23s. 3d. per lb., according to quantity.

Crude Drugs

AGAR.—Kobe No. 1 may be obtained for bacteriological purposes by approved users at 65s. to 70s. per lb., but practically no business is passing.

ALOES.—Cape continues in good demand, but no offers can be obtained from source; any available spot supplies would be worth 82s. 6d. per cwt. Curaçao, 480s. per cwt.

ANTIMONY.—Supplies are reserved for essential requirements. English minimum 99 per cent. regulus is unchanged at £120 per ton, delivered; 70 per cent., for the home trade, £100 per ton, delivered.

BALSAMS.—*Tolu* continues firm but unchanged at the slightly higher price of 14s. per lb. quoted last week. *Canada* is steady at 10s. 3d., and *Peru* at 8s. 6d. *Copaiba* is not offered.

BELLADONNA.—Spot quotations for Indian leaf show no change at 5s. to 5s. 6d. per lb. Indian root is steady at 4s. to 4s. 6d. per lb. Prices vary according to alkaloidal yield.

BENZOIN.—A few odd cases are being sold. Fair-quality Sumatra block is worth £22 10s. to £25 per cwt., and free "almonds," £32. Supplies are reserved for the manufacture of B.P. preparations.

BUCHU.—In good request, but no supplies of either ovals or rounds are available at present.

CAMPHOR.—Supplies of both synthetic and natural imported by the Ministry of Supply are available for distribution to approved users. Re-sale prices for quantities under 7 lb. are awaited.

CARDAMOMS.—Quiet conditions persist; prices steady. Aleppy seed, spot, 6s. 6d. per lb.; Aleppy greens, 5s. 6d.; split seed, 5s. 6d.; Ceylon greens, 5s. 9d.

CASCARA SAGRADA.—Inquiries are still being received but no supplies are available at present.

CHILLIES.—Mombasa is the only variety offered on spot. Price steady at 120s. per cwt.

CLOVES.—Zanzibar, spot, quoted at 1s. 5½d. per lb.; second quality, for shipment, 10d. per lb.; sellers, c.i.f.

COCOA BUTTER.—Maximum official price remains at 1s. 5½d. per lb., ex factory or warehouse, except for sales made under Ministry of Food licence.

COCONUT (DESICCATED).—Maximum official price is unchanged at 49s. per cwt.

DIGITALIS LEAF.—Portuguese leaf may be obtained on spot at 135s. per cwt.; English-grown leaf, steady at 2s. 6d. per lb.

DRAGON'S BLOOD.—Dull Zanzibar drop, spot, £21 per cwt.; no other varieties available.

ELEMI.—Small supplies of No. 1 gum are quoted on spot at 340s. per cwt.

ERGOT.—Little business passing. Sound material, if available on spot, would be worth 5s. 6d. per lb., and wormy, 5s.

GALANGAL ROOT.—Quoted at 100s. per cwt., in bond Liverpool.

GUM ACACIA.—There is no change in the spot price of Kordofan cleaned sorts at 95s. per cwt. bleached, 140s., c.i.f.; Talha, cleaned, 55s. per cwt., landed terms.

HENBANE LEAVES.—Indian leaves would be worth from 250s. to 350s. per cwt., according to test. Russian leaves may be obtained by approved buyers at 3s. 6d. per lb.

IPECACUANHA.—Nothing much to be had on spot and quotations are unchanged. Current prices of EXT. IPECAC. LIQ. are as follows:—Worcesters, B.P., 1932, under three, 30s. 6d. per lb.; three and under six, 30s.; six and under twelve, 29s. 6d.; twelve and over, 29s. B.P. 1914, under three, 28s. 6d.; three and under six, 28s.; six and under twelve, 27s. 6d.; twelve and over, 27s. per lb.; all prices quoted are on a net basis.

JALAP.—Spot price of Brazilian root, testing 16 per cent., steady at 105s. per cwt.

KAMALA.—No change from 1s. 9d. per lb. for material testing about 5 per cent. ash.

LIQUORICE ROOT.—Russian root, to approve buyers for pharmaceutical purposes, 75s. per cwt.; cut Russian root, for non-pharmaceutical purposes, 96s. 6d.

MENTHOL.—Fair spot business is reported done at 115s. per lb. An Order fixing price for natural has been issued (see p. 280).

MERCURY.—Official spot quotations range from £68 10s. to £69 15s. per flask, according to conditions and quantity, with higher rates for smaller lots and redistilled grades.

MYRRH.—Good-quality Aden sorts may be had on spot at £20 per cwt., pickings at £10.

NUTMEGS.—West Indian, spot, wormy and broken, 1s. 6d. per lb.; sound unassorted 1s. 9d. Under the Spices (Control) Order, 1943, quarterly returns are required of stocks of 20 cwt. or more, the first return to be made of stocks as on June 30, 1943. Such stocks cannot be processed or disposed of, except under licence. (See C. & D., September 11, p. 257.)

NUX VOMICA.—Prices and supply position are unchanged. Cochinchina, washed and garbled spot, 42s. 6d. per cwt.; Cocanada, spot, 37s. 6d. shipment, Cocanada, 32s. 6d. per cwt., c.i.f.

ORANGE PEEL.—Bitter quarters are not obtainable, but some good thin-cut may be had on spot at 4s. 6d. per lb.

PIMENTO.—Spot quoted at 1s. 9d. per lb. sellers.

PODOPHYLLUM.—Spot, untested, 95s. per cwt.; shipment, 72s. 6d., c.i.f.

QUILLAIA BARK.—Crushed or cut bark, spot 100s. per cwt.; natural, afloat, 75s., c.i.f.

RHUBARB.—Fairly good demand, but prices are without quotable change. Rough-round spot, 8s. per lb.; flat high-dried, rough-coat 8s. to 8s. 3d.; slightly wormy, 8s.; Shensi pickings, 10s.

SAPONIN.—Steady at 7s. 6d. per lb., ex store.

SEEDS.—Continue neglected, but no further price reductions are notified. CORIANDER.—

dian, 90s. per cwt. CUMIN.—Maltese, spot, 10s.; Indian, 112s. 6d. DILL.—160s., ex wharf Glasgow; 170s. ex wharf London. FENNEL.—Nominal at 87s. 6d. FENUGREEK.—May be had at 80s. MUSTARD.—Controlled prices unchanged.

SENNA.—Medium Alexandrian pods may be had at from 3s. 9d. to 4s. per lb.; hand-picked Tinnevely pods are at 11d. to 1s. 5d., ordinary grade at 10d. to 11d., and manufacturing grade 6d. to 7½d. 1s. 3d. to 1s. 4d. would be wanted for broken Alexandrian leaves; Tinnevely leaves are quoted as follows: No. 1, 9d. to 10d.; No. 2, 7d. to 7½d.; No. 3, 5½d. to 6d.

SQUILL.—Portuguese, spot, 80s. per cwt.; Indian, 72s. 6d.

STROPHANTHUS.—About 10s. 6d. per lb. should be wanted for small parcels of 100 per cent. Kombé seed. Rather more inquiry has been received.

TRAGACANTH.—Firm, but without price change. Medium grades are quoted as follows: No. 1, white, £130 per cwt.; No. 2, white, £115; No. 3, white, £102; No. 4, white, £83; pale leaf, £73; amber leaf, £65; dark amber, £45; brown leaf, £35; red-and-brown leaf, £32; dried leaf, from £30; hoggly, light, from £17; body and dark, £12.

TURMERIC.—Inquiry extremely slow. Madras larger, sound-quality, spot, easier at 57s. 6d. per cwt.; wormy, half-a-crown less.

VALERIAN ROOT.—Spot supplies of Indian may be had from dealers at 95s. per cwt., ex pre.

WAXES.—BEES'.—Obtainable only through the Association of Merchant Distributors of Petroleum. CARNAUBA.—Quiet and without notable change. Fatty grey and chalky grey, 425s.; Primeira, 530s. per cwt.

Essential and Expressed Oils

ANISE (STAR).—In good inquiry, but stocks are difficult to find. Any small available supplies would be worth 75s. per lb.

BAY.—Spot supplies are scarce; any available oil would be worth about 12s. 6d. per lb.

BOIS DE ROSE.—About 47s. per lb. would present the present spot price of any available supplies.

CAJUPUT.—Small spot supplies are quoted at about 15s. per lb.

CHAULMOOGRA.—*Hydnocarpus* oil, 1s. 3d. per lb., in large drums, in bond Liverpool.

CINNAMON.—Leaf oil would be worth about 5s. 6d. per lb.

CITRONELLA.—Spot price of Java remains about 25s. per lb.; Ceylon, about 21s. 6d.

CLOVE.—As noted last week (p. 277), English stillers have reduced their prices by 2s. per lb., making the new rate 11s. 6d. to 12s. per lb. for P. oil, according to quantity.

COCONUT.—Bulk supplies of refined deodorised are officially quoted at £49 per ton, and refined hardened deodorised at £53, both naked ex works.

COTTONSEED.—Bulk supplies are officially priced as follows: Refined edible, £57 per ton; refined deodorised, £58 per ton; both naked ex works.

CROTON.—Quoted at 9s. 6d. per lb.

GROUNDNUT.—Controlled prices for bulk supplies are as follows: refined deodorised, £58 per ton; refined hardened deodorised, to 40°, £62; refined hardened deodorised, to 50° to 52°, £62; all naked ex works.

EUCALYPTUS.—About 7s. per lb. would be the value of small quantities of oil containing 70 to 75 per cent. cineole.

GERANIUM.—Genuine North African oil may be had at from 85s. to 90s. per lb.

GINGER.—English-distilled oil is offered at approximately 90s. per lb.

GINGERGRASS.—In small supply at about 22s. 6d. per lb.

LEMONGRASS.—Dealers would require about 15s. to 16s. per lb.

NUTMEG.—Oil from West Indian nutmegs may be obtained at around 42s. per lb.

PALM.—Official price of refined deodorised remains at £55 per ton and that of refined hardened deodorised at £58 per ton, both naked ex works.

PALM KERNEL.—Bulk supplies are officially priced as follows: refined deodorised, £49 per ton; hardened refined deodorised, £53 per ton, both naked ex works.

PATCHOULI.—Any remaining spot supplies of good-quality oil would be worth about 75s. per lb.

PENNYROYAL.—From 40s. to 45s. per lb. would be wanted for spot oil, if available.

PEPPERMINT.—Good demand continues, but available supplies are extremely low; price, if available, would be in the region of 110s. to 115s. per lb.

PETITGRAIN.—In poor supply; price approximately 25s. per lb.

RAPESEED.—Bulk supplies of refined are unchanged at £60 per ton, naked ex works.

ROSEMARY.—If available on spot, price would be in the region of 16s. per lb.

THYME.—Supplies of high-grade oils are difficult to find; price, if available, about 25s. per lb.

VETIVERT.—Spot oil is priced at around 95s. per lb.

Controlled Essential Oils.—The following are the controlled prices per lb. for essential oils imported under the essential oils scheme (for details, see C. & D., September 4, p. 255): *Lease-Lend Oils (American)*: Lemon, cold pressed, 18s. 10½d.; lemon, distilled, 14s. 4d.; peppermint, 36s. 4d.; grapefruit, 18s. 2d.; sassafras, 11s. 1½d.; caraway, 20s. 4½d.; wormseed, 15s. (plus purchase tax); cedarwood, 3s. 1d.; nutmeg, 23s. 3d. *Oils from Empire Sources (maximum prices)*: Clove, Zanzibar, 5s. 6d.; citronella, 5s.; lime, 46s. 3d.; lemon-grass, 5s. 6d.

MISCELLANEOUS INQUIRIES

Preserving Duck Eggs.—*L. M. E.*—While it is not impossible to preserve duck eggs by the same method as with hen eggs, the results are not satisfactory. The shells are much more porous than those of hen eggs. Moreover, ducks are gross feeders, and no guarantee can be given, whatever method is tried, that success will be achieved. If you put down, say, 100 duck eggs you might be fortunate enough to preserve twenty-five for a limited period.

Strength of Hair Bleach.—*C. C. S.*—It is quite usual to use ten-volume solution of hydrogen peroxide by itself. After washing and drying the hair the solution is applied with a sponge and the degree of bleach resulting depends on the quantity of solution used. Addition of not more than 1 in 20 strong solution of ammonia makes the hair more amenable to the bleaching treatment.

Gut Reviver.—*R. P.*—A United States patent was taken out for a process of coating tennis-racquet strings that is stated to produce a result more closely resembling sheep gut in texture, resilience and tenacity than compounds of shellac or varnish. Briefly the method consists of adding a colloid-hardening bichromate solution (e.g. sodium, potassium or ammonium) to a mixture of starch and gum acacia. The starch solution is prepared by boiling $\frac{1}{2}$ oz. starch with 16 oz. water. The product is added to an equal quantity of gum acacia solution of strength $6\frac{1}{2}$ oz. gum to 16 oz. water before adding bichromate solution, 1 to 4 per cent., in corresponding amount.

Parinarium Oils.—*A. A.*—Oils are derived from three species of *Parinarium*, namely *P. laurinum*, *P. macrophyllum* and *P. sherbroense*. The first two originate in the Pacific Isles. The third, which yields an oil more usually called "Po-yoak" oil, is indigenous to Sierra Leone. Import figures are not at present being published, and the only information you could obtain would be through the Oils and Fats Division, Ministry of Food, Rothersey.

Mustard as Condiment.—*E. O'G.*—The mustard preferred for use as a condiment is that known as "double" mustard—a mixture of black and white seeds finely ground. The black seed provides the aroma and the white gives pungency. The seeds are ground and the resulting flour is sifted to make the preparation of commerce, but mixtures of ground mustard seed mixed with corn flour, turmeric, etc., are sold

under such names as "mustard condiment" or "mixed mustard."

Vitamin A in Gastric Disorders.—*A. H. B.*—We cannot call to mind references in the literature to any clinical cases in which vitamin A was used for the treatment of gastric troubles in human beings. There is no doubt that vitamin A exercises a non-specific function upon the fat and carbohydrate metabolism, and in conditions where the vitamin is lacking it is quite possible that gastro-intestinal disorders may occur. It seems unlikely, however, that the exhibition of vitamin A would have any but a general effect on the majority of gastric lesions.

Removing a Marking-ink Stain.—*R. P. L.*—If the marking ink was one containing an aniline dye it will be found difficult to remove, since the stain is liable to spread and instead of dispersing completely merely becomes discoloured. The following procedures have been suggested and may in some cases yield the desired result:—

1. Treat the stain with pure aniline.
2. Apply to the stain a solution of benzir soap in chloroform. This is prepared by dissolving coconut oil soap and a small amount of solution of potassium hydroxide in benzine.

Transfer Wax.—*F. M. C.*—The composition of transfer wax is:—

Beeswax	3 parts
Tallow	3 parts
Canada balsam ..	1 part
Olive oil	1 part

If the wax is too hard at the time of use add a few drops of olive oil; if too soft a little more beeswax.

Supplying a Dusting Powder.—*P. B.*—Whether a medicated dusting powder is affected by controls depends on whether it is regarded by the authorities as a medical or a toilet product. If the latter supply is subject to the Toilet Preparations Order and the registered manufacturer is able to supply only up to a quota figure, though a special ex-quota concession is allowed for baby dusting powder if made to a specified formula and supplied to certain named classes of consumer.

CLOSED ON SATURDAYS.—Advertisers and subscribers are reminded that owing to war conditions the Head Office of THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the C. & D., 17 Argyle Street, Bath, Somerset.

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Chief B₁ Factors

Since their introduction, 'Benerva' Compound Tablets have become increasingly prescribed, the three chief B₁ factors being present in each tablet in adequate but not excessive doses. The medical profession is particularly interested in their use in the treatment of elderly patients in whom certain pathological senile features are strikingly improved. Good reports have been received of the effectiveness of 'Benerva' Compound in many skin diseases. 'Benerva' Compound Tablets are in ample supply.

Supplies of 'Nestrovite'

We regret to say that the quota of 'Nestrovite' Tablets for the current period has been almost entirely exhausted. 'Nestrovite' Emulsion, however, will shortly become available again, and so far as is possible supplies will be equitably distributed so long as stocks last.

'Prostigmin' and Pregnancy Test

The medical profession has been provided with 'Prostigmin' with a synthetic substance for many uses. One of the most interesting is an easy and relatively dependable test in the diagnosis of pregnancy. 'Prostigmin,' which is related to physostigmine, but is without its undesirable properties, has been repeatedly shown to be effective in cases where there is no endocrine dysfunction. Convincing evidence has been published in numerous American medical journals, the latest and perhaps most comprehensive paper appeared recently in the J.A.M.A. It reports on 57 cases studied at the Women's Hospital in New York. In his conclusion the author states: "This combined method for the treatment of delayed menstruation and test for early pregnancy seems of practical

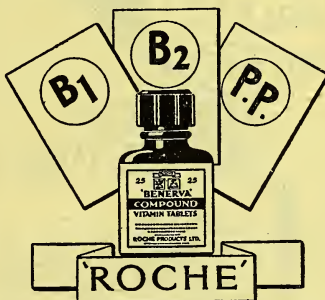
value and a perfectly safe procedure to use, with no ill effects on the pregnant or the non-pregnant woman having been observed." Despite the safety of the test 'Prostigmin' should, of course, be strictly reserved for use by medical practitioners and should be located as a Schedule 1 Poison.

Life Saving at Sea

'Tubunic' Ampoule Syringes which have come rapidly into prominence as a result of their effectiveness under war conditions on land, sea and in the air, are now specially packed for lifeboat use in sealed and lacquered tins. The object of this pack is to exclude sea water.

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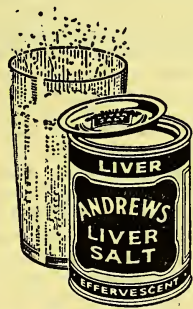
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How to let the people know all about 'ASPRO', its service—safety—the quick help it renders, in limited space. That has always been a problem. A kindly advertising critic, remarking a few years back that 'ASPRO' had been "put on the map" in record time, commented that our advertisements were "cramped in with a shoe horn"—they were over-filled with interesting facts. Now our problem is intensified ten-fold by the reduced advertising space available in the Press. Nevertheless these small advertisements are doing a grand job, maintaining and fostering the vast 'ASPRO' goodwill.

The Chemist has his own problem. Although in many cases his display space is unchanged, he has to determine how to put it to the best possible use, both for the present and for the future goodwill of his business. It is worth remembering, therefore, that an 'ASPRO' show not only qualifies for bonus terms, but capitalises and preserves for you the goodwill of the leading medicinal line.

Fortunately, we are still able to supply a display or sticker on request, but it has become a matter of vital concern to the Nation that every piece of display material should be made to last. No more can be made or printed, so please use your present display as long as possible. When it is really worn out, put it with your other salvage and write us for a new one.

We have a limited supply of chemists
2-oz. bags available at 7/6 per 1,000.

'ASPRO'

Made in England by
ASPRO LTD., Slough, Bucks.
Telephone: Slough 22381

ASPRO
REG. TRADE MARK

KNOWN TO ALL.

No asthma remedy is better known than Dr. Hair's. It has won a world wide reputation and popularity. It is a quick seller, which if stocked to meet the demand, will give you quick and substantial profits. P.A.T.A. terms with additional 7½% window display terms for orders value £3 or over. Display material available.

QUICK TO SELL

DR. HAIR'S

ASTHMA CURE

Protected by the **PATA**

Dr. Hair Brand Remedies also include Bronchial Cough Cure, Catarrh Cure Pills, and Liver Pills.

DR. HAIR'S ASTHMA CURE LIMITED

Stanwell Moor, Staines, Middlesex

AN ACHIEVEMENT IN WAR TIME

VOLA-SELTZER

IN **TABLET** FORM

ALKALISING AND EFFERVESCENT

RETAIL 2/3 INC. TAX



ORDER NOW

through your Wholesaler or direct
from Agents


JOHNSON AGENCIES (PTY.) LTD.

CLARENDON WORKS

CLARENDON ROAD, CROYDON

ONE OF OUR SPECIALITIES"

HALIBUT LIVER OIL CAPSULES

 and **PATA**

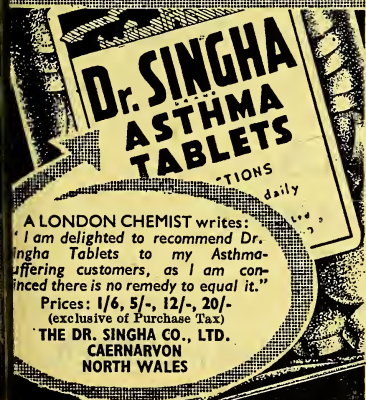
*We can recommend
and still supply*

*

IN BOXES OF 24 9/- doz.
" " 60 18/- "

OFFHOUSE & SALTMER, Ltd.
Manufacturing Chemists
HULL

ALL THE BEST REMEDY FOR ASTHMA

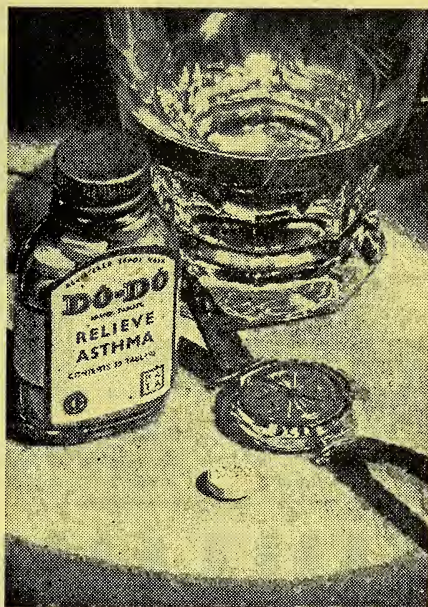


**Dr. SINGHA
ASTHMA
TABLETS**

A LONDON CHEMIST writes:
"I am delighted to recommend Dr. Singha Tablets to my Asthma-suffering customers, as I am convinced there is no remedy to equal it."

Prices: 1/6, 5/-, 12/-, 20/-
(exclusive of Purchase Tax)

THE DR. SINGHA CO., LTD.
CAERNARVON
NORTH WALES



Asthma Tabellae

(International Laboratory DO-DO Formula)

The treatment of Asthma by Tabellae is a recognised part of modern medical practice. Do-Do Asthma Tablets commend themselves by virtue of formula and unvarying excellence of manufacture.

Do-Do Tablets are indicated in cases of Adult Asthma, Bronchial Asthma, Bronchitis, etc. Spasm relieved in 30 seconds; normal breathing restored in 15-30 minutes.

30 Tablets 3s. 4½d. Trial Size, 7 Full Doses,
1s. 1½d. Prices include P.T.

INTERNATIONAL LABORATORIES LTD.
CHARLBURY • OXFORD
Charlbury 29

ALBUCID

The Series

ALBUCID

Tablets Tubes of 20 and bottles of 500 x 7½ grains

Powder Sterile Ampoules of 5, 10 and 15 grams.

ALBUCID SOLUBLE

Ampoules Boxes of 5 x 5 cc. x 30%

Burn and Wound Dressing 1 oz. tubes, 4 oz. pots, 1 lb. jars

First Aid Dressing 1 oz. tubes and 1 lb. jars

Eye Drops ½ oz. bottles of 10% and 30%

Eye Lotion Tablets Tubes of 12 and boxes of 250 x 0.25 gm.

Eye Ointment Tubes of 25 grams. x 2.5%

Naso-Pharyngeal Solution Bottles of 1 oz. x 10%

Powder Bottles of ½ oz., 1 oz. and 8 oz.

Sterile Ampoules of 5, 10 and 15 grams.

ALBUCID

'Albucid' is the registered name which distinguishes Sulphacetamide of British Schering manufacture

Details and prices gladly sent on request



BRITISH SCHERING LIMITED

185-190, HIGH HOLBORN, LONDON, W.C.

ASSOCIATED COMPANIES: *British Schering Research Laboratories Ltd., Alderley Edge, Cheshire.*
British Schering Manufacturing Laboratories Ltd., Pendleton, Lancs.

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The VITAMIN MALT FOOD

With Guaranteed Complement of Vitamins A, B, C & D
Sole Manufacturers.
JEFFREYS, MILLER & Co. Ltd. Leyland Mills, WIGAN. London Dep't. 19 Brookside Road, N.

GUM TRAGACANTH

DIRECT IMPORTERS

N. S. DANGOOR, LTD., 37 GRACECHURCH ST., LONDON, E.C.3

'Phone: MANSION HOUSE 4781

EMBOSSSED LABELS, STOCK OR TO ORDER.

Please write

JAMES TOWNSEND & SONS, Ltd., EXETER.



HORMOTONE "T" BRAND

**AMPLE
SUPPLIES
AVAILABLE**

available from stock:
MOTONE Brand,
s of 100 & 500 tabs.
MOTONE Brand
out POST-PI-
ARY, bottles of
bs. TRYPSOGEN
bottles of 100 and
bs. TRYPSOGEN
(special-coated)
s of 100 and 500
OLOPO Brand,
s of 40 tabs.

RIBUTORS:

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To obviate delays in
meeting the increasing num-
ber of prescriptions for
Hormotone "T," chemists are
invited to replenish their stocks
now.

Orders for "HORMOTONE" "T" Brand or any of the
other products listed at side can be accepted for immediate
delivery from stock.

Order through your usual wholesaler or direct from sole distri-
butors. "HORMOTONE" "T" Brand in bottles of 40 tablets
only. "HORMOTONE" Brand in bottles of 100 and 500
tablets.

PATA

G. W. CARRICK CO.

Newark, New Jersey, U.S.A.



ARE YOU STOCKING
PLESOX
TOMACH TREATMENT?

PLESOX ("Nature's Partner") is the Stomach
Treatment for which repeat sales are a matter
of course. Backed by strong national advertis-
ing now in progress—which will send sufferers
to you.

Order now 1 dozen trial size (2/3) in attention-
compelling display carton.

For treating

• DYSPEPSIA
• ACIDITY

• HEARTBURN
• GASTRITIS

and any food poisoning

Plesox is now solely distributed by
EMMET DISTRIBUTING Co. Ltd.

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Tel.: Mayfair 6756/7/8

Sole Distributors for GRANTO LABORATORIES LTD.

*The Natural
Treatment with
the National sale*



2/3, 4/2, 6/8

ON THE
PATA

The Natural Calcium Compound



'Calfos,' which is derived from natural sources, supplies calcium and phosphorus in a palatable, concentrated form which ensures absorption in the correct physiological ratio. It thus marks an advance in nutritional therapy of outstanding importance to all who suffer from calcium and phosphorus deficiency.

WIDELY ADVERTISED TO THE MEDICAL PROFESSION

TRADE & RETAIL PRICES

	Face Price Exclusive of Tax	TRADE PRICE per dozen	Purchase Tax per dozen	Minimum Retail Price including Purchase Tax
Box of 50 Tablets	2/6	20/-	3/4	2/9½
Box of 120 Tablets	4/9	38/-	6/4	5/3½

Special terms are available for hospital packs.

Supplies from your wholesaler or

CALFOS LIMITED

IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2

Temple Bar 3629

ST 1



The CHEMIST AND DRUGGIST

SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

SEPTEMBER 18
1943

28 ESSEX STREET, LONDON, W.C.2

Advertisements in this supplement must be prepaid and should reach us not later than WEDNESDAY week of issue. Box Office numbers cost 1/-. Late advertisements will be held over to following week.

E EMMET DISTRIBUTING CO.,
D., 140 Park Lane, London, W.1,
we pleasure in announcing that
they have acquired the rights
of distribution, through chemists;
SWEETENING TABLETS,
made by GEETABS, LTD. They
therefore invite their chemist
ends to apply for allocation.

Pharmaceuti. 3 60-lb. Cases. Offers required.
Crystals, Sodii Carb., 27/6 cwt.
Sodii Crystals, Sodii Sesquicarb., 30/- cwt.
Cellophane Tubes for Lipstick Refills,
0/- gross.
Wilson's, 102 Carr House Road, Doncaster

**10 GROSS CARDBOARD LIP-
STICK REFILL CASES**
Various colours 11 mm., also quantity of Rouge,
Lip and Face Powder Boxes. CDB/193,
Box Office of this Paper.

Large quantities of 1-oz. and 2-oz. Jars with
Lids; 2, 3, 4-oz. Fancy Bottles, with Bakelite
Screw Caps; Metal and Bakelite Caps
for Sale.
FAYLENE MANUFACTURING CO., LTD.,
19 Dewhurst Road, London, W.1.

BOCKTAKING VALUATIONS
BUSINESSES
For Sale and Required
NEST GEORGE & Co.

High Holborn,
London, W.C.1.
Tel. 7406/7.

35 Bridge Street,
Walsall, Nr. Birmingham
Walsall 5948

LIPSTICK MOULD FOR THE SMALL MANUFACTURER

To cast 12 11-mm. chisel end Lipsticks. A perfect
cast every time. One mould and full instructions,
25/- C.O.D. or C.W.O. Sample casting and
Lipstick Container, list, etc., 1/- post paid.
Output limited, all orders acknowledged and in
strict rotation. Lipstick colours, all shades, from
16/- lb.

CREIGHTON (Agencies) CO., 1a Queen's
Parade Muswell Hill, LONDON, N.10.
Telephone: Tudor 2174.

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FOR THE

S.M.C., B.O.A., and N.A.O. DIPLOMA Examinations
Particulars:—

C. A. SCURR, F.S.M.C., F.B.O.A., F.N.A.O.,
F.I.O., F.C.O., M.P.S.
50 HIGH STREET, BARNET, LONDON, N.

HAIR CREAM JARS. Usual type wide mouth,
black metal screw caps. Five gross, £12 3s.;
twenty gross, less 10 per cent. cash with order.
Carriage paid. Boxes free. Sample, 9d.

Big 2 oz. and 4 oz. PANELS. Bakelite or black
metal screw caps. Ideal for leg tan. Calamine
lotion wave set. Five gross, £8 and £8 10s.
respectively. Terms as above. Immediate
despatch.

RICHARD DAVIES

Chemist, Bolton.

EMULSION WAX F.M.C.

Guaranteed Free from Petroleum Products.
No Oil required. Stable White Emulsions
with Water only. Prepared from high-grade
non-injurious material. Prices 9/6 per lb.
Carriage paid. Minimum 7 lb. Special quantity
Rates for Distributors.

Also Oils, Waxes, Chemicals, Disinfectant
Fluids, Gelatine Powder, Gums, etc., etc.

THE FAYLENE MANUFACTURING COMPANY
15 Queens Court, Lower Briggate, Leeds, 1.
Phone: Leeds 22594.

EMULSIFYING WAX

prepared from non-petroleum, non-injurious materials, makes attractive emulsion and cream base with addition of water only. Sample 1 lb. at 10/- car. pd. or 7 lb. at 9/- per lb.

P. R. LABORATORIES
56 Theobalds Road, W.C.1

SPECTACLE FRAMES

We can supply
GOOD QUALITY IMSHELL FRAMES
Various shapes and colours, with reinforced sides and mitred joints. Regular deliveries, moderate prices
E. LANDAU, 18 Clarendon Court, Staverton Road LONDON, N.W.2

Pa. Bottles, 1 oz., 24/-; 2 oz., 27/-; 4 oz., 31/- Tall Type Round Jars, $\frac{1}{2}$ oz., 21/-; 1 oz., 27/- Squat Jars, 2 oz., 36/- Fancy Ridge-necked Bottles, 2 oz., 33/- All priced per gross. All with metal caps, 1/- per gross extra, cartons returnable. Carr. Paid.

H.S. BOTTLE CO., 29 Sherwood Hall, East End Road, LONDON, N.2.

Aluminium and Tin Foil, range of samples, 6d. "Mirabil" Powder for Setting Lotion, Hair Cream, etc., 14/6 per lb. Substantial sample, 1/- We can offer Gum Tragacanth, Perfume Essences, Colourings, Beeswax Substitute, Stearic Acid, Shaving Cream, Empty Bottles and Jars, Hair Slides, Grips and Curlers, Small Puffs, Lotion Sprays. Send us your inquiries.
T. WOOD & SON, Syke Works, Cleckheaton.

POWDER FILLING MACHINE

Makers—Jackson & Crockatt Ltd.

Excellent condition. Phone PUTNEY 2406/2

For permission to view, further particulars . . .

444/372 London Office of this Paper.

SHOP FITTING

MYERS OF OLD ST. THE PHARMACY FITTERS

ALL PHARMACY FITTINGS. New and Secondhand
From the single unit—to the complete Pharmacy
Write, Phone or call

L. MYERS, 133-135 OLD ST., E.C.1. Phone: CLE 6381

BUSINESSES WANTED

7/6 for 40 words or less, 2d. for every additional word.

TO Manufacturers of Food Products, Essences, Pharmaceutical and Allied Products. Progressive firm of Manufacturing Chemists are interested in purchasing any of the above type of concerns. Bankers' references furnished. Reply in strictest confidence to S., c/o Cosslett & Co., Chartered Accountants, 48 Mosley Street, Manchester, 2.

SITUATIONS OPEN

7/6 for 40 words or less, 2d. for every additional word.

Employment of Women (Control of Engagements) Order 1942

With certain exceptions, women over 18 and under 45 years of age seeking Employment and Employers seeking to engage such women are now required to do so through the local office of the Ministry of Labour National Service or an approved employment agent.

RETAIL (HOME)

BIRMINGHAM. Pharmacist (either sex) required, female. The position is a permanency and one who offers good prospects and is progressive. Applicant should give full particulars of experience and salary required. Selected applicants will be asked to come to Birmingham for an interview, travel expenses will be paid. An elderly man if actually preferred. "Aspirin," 444/356, London Office of this Paper.

BLACKPOOL. Unqualified Senior Assistant required, female. Capable of taking charge short periods. No dispensing experience necessary. Permanent position for the right person. CDE London Office of this Paper.

BROMLEY, Kent (near). Qualified for Branch must be exempt or over military age. Sunday or holiday duties; salary £7 7s. per week. Apply (letter). Chemist, 10 Burford Road, Biggleswade, Bedfordshire.

CHEMIST-OPTICIAN or Chemist required. Manager of branch pharmacy. Either sex. Exempt. Apply, stating age, experience and salary required, to the Secretary, Co-operative Society Ltd., Free School Lane, Lincoln.

EXECUTORS require Superintendent in a branch for 4 weeks, either sex, exempt military service. Easy hours, no half-day or Sunday duty. Salary £7 7s. per week. Reply, in first instance by letter to Horrell & Co., Rye, Sussex.

LONDON CO-OPERATIVE CHEMISTS. Invite applications from Qualified Pharmacists, male or female, for progressive positions in London Suburban Areas. Applications stating previous experience and salary required to: Pharmacist, 54 Maryland Street, Stratford, London, E.15.

LONDON CO-OPERATIVE SOCIETY. Invite applications from experienced Drug Hands, both male and female, to fill vacancies as Drug Store Manager. Salary offered will be progressive commensurate with the duties involved. Applications giving full particulars of experience to: Store Manager, 54 Maryland Street, Stratford, London, E.15.

PHARMACY. The Royal Arsenal Co-operative Society, Limited, has a vacancy for a Qualified Pharmacist. Progressive position. Good conditions of employment and no Sunday or holiday duty. Apply in writing, stating age and experience, position under the National Service or Registration Employment Order Acts, and salary required, to: Staff Manager, Royal Arsenal Co-operative Society Limited, 113 Powis Street, Woolwich, S.E.1. Enclose envelope "Pharmacy."

QUALIFIED Manager required for Branch Pharmacy if suitable. Minimum salary £7 4s. Also Qualified Locum. State dates available. The Walsall & District Co-operative Society, 1 Bridge Street, Walsall.

QUALIFIED Manager required for Branch Pharmacy. Middle class. Permanency if suitable. Salary £7 4s. per week. Duty to commence not later than Monday, October 4. Apply with full details stating experience and enclosing references to Messrs H. E. Neal & Co., Accountants, Allen House, New Street, Leicester.

UNLIFIED Chemist wanted now as Manager in skirts of Coventry. Light duties and hours. day or half-day duties; no clerical work. ary or permanency. Male or female. Good Robinson, 72 Ansty Road, Wyken, Coventry.

ORS BRITISH CHEMISTS have Vacancies Qualified Managers and Assistants, male or in the Midlands and North of England. Retail Staff Department, Burley Hill, Leeds, 4.

THY WHITES & TAYLORS are requiring pharmacists, male or female, as Managers for es at Horsham, Weybridge (flat available), outh, Portsmouth, Redruth, to replace ing called up for military service. Applicants interviewed at or near home towns if desired. particulars to Retail Drug Department, 70 ll Bridge Road, London, S.W.1.

Qualified Assistants required for Retail and e small Manufacturing. Salary £8 and Bonus. ours and good prospects. Amblin Sales Co., 88 Kilburn High Road, London, N.W.6.

JALIFIED Assistant required at once for ounter and Dispensing. No Sunday duties. ars and wages to Harold Miller, Ltd., 98 reet, Cheltenham.

JALIFIED Male Assistant required at once r City branch. Mainly Counter work, easy no Sunday duty; half day Saturday; perma- mfortable post for right man. Full details ublication or call personally. Hancock & Co., 4 Fleet Street, London, E.C.4.

JALIFIED Assistant (male) required for city siness. 445/376 London Office of this Paper.

JALIFIED Assistant. Male or Female, re- quired at once. Easy hours, no Sunday duty. salary to energetic and adaptable person. chemists, Ltd., 110 Seven Sisters Road, N.7.

TED. Pharmacist to manage Somerset eage business. CDB/199, London Office of per.

LOCUMS WANTED

M, fully qualified, required for two weeks, d of September, beginning October. Take full of small department, no Sunday duties, in nd. Apply giving full particulars, and salary e, to Coppen Bros., Ltd., 16-18 Rutherford Westminister, S.W.1.

WHOLESALE

Grinder, one accustomed to large Edge nners and Disintegrators. Under Essential rders. Apply C. R. Harker, Staggs & Morgan, mott Street, Mile End, E.1.

RENCED Representative required for rkshire area by high-class Ethical Manu- ging Chemists to call on hospitals, doctors and s. Must reside in territory. Write, stating perience, qualifications and liability to service, to "M.L." c/o Charles Barker Ltd., 31 Budge Row, London, E.C.4.

ING manufacturers of important raw aterials of particular interest under present ns, for Toilet and Pharmaceutical prepara- re reviewing their Sales Organisation and plications from responsible representatives nts with active connexions amongst Chemists, sses and Stores. Salary, expenses and com- 444/368, London Office of this Paper.

ESTABLISHED Essence House supplying neral Water and Confectionery Trades with unmanufactured Specialities, require the services etely of a full-time Representative for the s Territory. Permanent appointment with e opportunities for the right man. Present on will be handed over. The appointment on Salary, Expenses and Commission basis. ce given to applicant with existing connexion r territory. Reply, in confidence, with full ars. 444/367, London Office of this Paper.

PART or full-time Appointment vacant as Repre- sentative calling on hospitals, doctors, chemists for Ethical preparation. Write details, qualifications, remuneration expected. 444/370, London Office of this Paper.

PROGRESSIVE Organisation requires Qualified Chemist for Pharmacy Department. Either sex, exempt national service. Good salary and prospects. 444/353, London Office of this Paper.

REPRESENTATIVES wanted in Scotland, Wales, South and West of England who have first-class connexions with Chemists. Some Class 16 goods available. Write Box 921, Reynells, 44 Chancery Lane, W.C.2.

RESearch Chemist with specific knowledge and experience of Dentifrices and Antiseptics required by nationally known manufacturer for new product formulation. Write full details of background and qualifications. 444/349, London Office of this Paper.

TABLET compressors are required to turn out 7½-grain tables 7/16". Materials supplied. Quotation and productive capacity per week. 444/369, London Office of this Paper.

WELL-INTRODUCED Agents required in several areas by manufacturers of chemists' sundries. Write details to Esco (Rubber), Ltd., 78-80 Stamford Hill, London, N.16.

WELL-KNOWN firm requires the services of a representative to interview the medical profession and the trade. Applicants must be qualified Chemists and exempt from military service. Only men with energy and recognised ability should apply. Write giving details relating to age, experience and salary required to 444/366, London Office of this Paper.

EXPERIENCED Representative required for Lancashire area by high-class Ethical Manu- facturing Chemists to call on hospitals, doctors and chemists. Must reside in territory. Write, stating age, experience, qualifications and liability to military service to "N.M.," c/o Charles Barker & Sons, Ltd., 31 Budge Row, London, E.C.4.

BUSINESSES FOR DISPOSAL

7/6 for 40 words or less, 2d. for every additional word.

BUSINESS for Disposal. Bridgend. Large Shop, approximately £800 Stock. Minimum takings, £5,000 a year. Long lease. Bargain. £650 or near offer, plus Stock at valuation. 445/375, London Office of this Paper.

DRUG Stores and Surgical Business for Sale. Small living accommodation behind shop; central position. Business £2,500. Will sell property if required; opposite new site of Central Station; upstairs Let off in Flats. Good rental. Will Let at £3 per week and rates. Only wants seeing. Address: 120 Central Drive, Blackpool.

FOR SALE (Retailers' Surplus)

7/6 for 36 words or less, 2d. for every additional word.

SCALES for Sale, new condition, precision weighing to ⅛ ounce, to weigh to 1 lb. May be seen by appointment at Somerset Creameries, Ltd., 221 Lea Bridge Road, E.10.

MISCELLANEOUS SALES

12/6 for 60 words or less, 1/- each additional 10 words or less.

LARGE stocks of Talcum Powder Boxes, Face Powder Boxes, Mascara Boxes for sale. Samples and prices on application. Dr. Lister's Laboratories, 7 Park Lane, London, W.1.

STOCKS to Clear. Talcum and Face Powder Boxes, Bottles and Jars, Hair Nets and Powder Puffs. One Barrel Acetone, one Barrel Yellow Petroleum Jelly. The latter for essential purposes. Lennard Lee-Narvill & Co., Anlaby Road, Hull.

AGENCIES

7/6 for 36 words or less, 2d. for every additional word.

REPRESENTATIVE. Well-established connexion with Wholesale and Retail Chemists in North-West area, requires additional line on commission basis. 444/365, London Office of this Paper.

APPOINTMENTS

COUNTY BOROUGH OF SUNDERLAND

FEMALE ASSISTANT DISPENSER. The Council invite applications for the appointment of a Female Assistant Dispenser (preferably with the Apothecaries' Hall qualification) for the Municipal Hospital.

Commencing salary, £145 per annum rising by £15 per annum to £175 per annum (Grade C) plus bonus (at present £26 per annum).

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and to a medical examination as required by the Council for the purpose of that Act.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should be delivered to the undersigned (endorsed "Dispenser"), not later than Saturday, 25th September, 1943.

G. S. MCINTIRE,
Town Clerk.

Town Hall,
Sunderland.
3rd September, 1943.

EPSOM COUNTY HOSPITAL DORKING ROAD, EPSOM

ASST. PHARMACIST. Candidates must be M.P.S. or Ph.C. Commencing salary according to age and experience on grade £250 × £10—£300 p.a. plus war bonus. Temporary for approximate duration of war. Apply to Medical Superintendent.

WEST KENT GENERAL HOSPITAL MAIDSTONE. (135-250 BEDS.)

Applications are invited for the post of Assistant Dispenser, male or female. Applications, stating age, qualifications, and salary required, together with copies of recent testimonials should be sent to the Secretary.

WANTED

7/6 for 36 words or less, 2d. for every additional word.

ASPIRIN Powder, Crystals, Grans., and 5-grain Tablets required in large or small quantities. Highest market prices paid. 442/304, London Office of this Paper.

GUM Sandrac and Spirit Manila Gum Copal required, small or large quantities. Offers to 432/865, London Office of this Paper.

WANTED FOR SPOT CASH, National, Remington and Gledhill Cash Registers, all sizes, age immaterial, any quantity entertained. Amalgamated Business Machines, Ltd., 64 Mortimer Street, W.1. Phone: MUSeum 0941. Repairs, Sales, Exchanges.

WANTED. Loofahs and Sponges, any condition. United Sponge, 41 Royal Mint Street, London, E.1.

WANTED, Saccharin Tablets, any quantity below L. H. Smith, 127 Cheviot Gardens, London N.W.2.

WANTED, Wilkinson Ointment Mill; stainless steel pan. 15/20 gallons. 444/341, London Office of this Paper.

WANTED, Peerless, Hobart or similar Electric Mixer, 40 to 50 quart capacity, 420 volts 3-phase. Reade Bros., Ltd., Wolverhampton.

WATSON'S (Lincoln) wish to thank all who have sent and offered Peptonising Tubes. Please reply as soon as possible.

SITUATIONS WANTED

2/6 for 18 words or less, 1d. for every additional word.

LOCUMS SEEKING ENGAGEMENT

LADY Dispenser-Secretary desires "Locum" Hall Certificate, experienced Doctors and hospitals. Permanency London considered. Roy 112 Maryland Road, N.22. (Bowes Park 1320).

WHOLESALE

EXPERIENCED and well-known Representative on Lancashire and Cheshire territory seeks additional good-class Proprietaries, Pharmacists or otherwise. Good connexion Chemists and Staff. Reply 445/373, London Office of this Paper.

FIRST-CLASS Representative, 45, covering South West England and South Wales 10 years' experience position. CDB/198, London Office of this Paper.

GENTLEMAN invalided Royal Navy (Medical Branch) not disabled, desires to contact suitable firm of importance offering scope for employment, competency, and experience in business organisation and management, including all branches of distribution for pharmaceutical products where a practical knowledge of surgery, medicine and bacteriology can be applied. CDB/196, London Office of this Paper.

PHARMACIST requires permanent position, independent staff, preferably Sales or Buying. Experience Buying, Staff Control and Production. Good general knowledge of Pharmacy. 445/374, London Office of this Paper.

REPRESENTATIVE, 20 years' selling experience Wholesale, Retail, West of Scotland, Edinburgh, desires change or reputable agent Advertiser, 5 Marchmont Terrace, Glasgow, W.2.

SALES Executive desires change. Present appointment entails complete distribution in home and overseas markets of well-known ethical products. Position desired should carry equal responsibility and possess scope for post-war increase. A direct ship should be available with a commencing salary of not less than £1,200. Reply in confidence. 444/305, London Office of this Paper.

BUSINESS OPPORTUNITIES

7/6 for 40 words or less, 2d. for every additional word.

EXPORT Distributors of Fine Chemicals, Pharmaceuticals, Drugs, Vitamins, etc., are anxious to contact actual Non-Convention Manufacturers with a view to placing Bulk Orders. Please communicate with CDB/177, London Office of this Paper.

BRITISH ALKALOIDS AND FINE CHEMICALS

WHIFFEN

BROMIDES AND IODIDES

MERCURIALS • ATROPINE • CAMPHOR
NICOTINE • NICOTINIC ACID • SALICIN •
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EXTRACT OF IPECAC. LIQ. • DRUG GRINDING

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FULHAM

LONDON, S.W.6

'Phone : Fulham 0037. 'Grams: Whiffen London

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LITHIUM SALTS

PODOPHYLLIN RESIN • SANTONIN

STRYCHNINE & SALTS

THEOBROMINE SALTS

*New Products manufactured at
OUR GARDEN CITY FACTORY
will be announced from time to time*

CARNEGIE

CHEMICALS [WELWYN] LTD

ASSOCIATED WITH CARNEGIE QUININE WORKS LTD.

Manufacturers of Fine Chemicals

WELWYN GARDEN CITY

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